



catalogue
2024/25
appendix

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tissue microarrays (TMA)

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Tissue Microarray - Normal adult tissue I

Cat.-No.: 401 1110

Sample Datasheet

Slide Label				
	a	b	c	d
1	●	●	●	●
2	●	●	●	●
3	●	●	●	●
4	●	●	●	●
5	●	●	●	●
6	●	●	●	●
7	●	●	●	●
8	●	●	●	

Technical Information: 31 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1110

Position	Organ (Specifications)	Sex	Age
1a	Pancreas	f	67
1b	Spleen	m	72
1c	Breast	f	57
1d	Esophagus (smooth muscle - muscularis media)	m	40
2a	Skeletal muscle	f	51
2b	Salivary gland (Gl. Submandibularis)	f	59
2c	Gall bladder	m	45
2d	Thyroid gland	m	70
3a	Kidney	m	61
3b	Appendix vermiformis	m	33
3c	Uterus (Myometrium, Endometrium)	f	44
3d	Stomach	m	60
4a	Placenta	f	27
4b	Testis	m	70
4c	Tonsilla palatina	m	37
4d	Colon (submucosa)	m	67
5a	Liver	M	61
5b	Brain (temporal cortex)	m	19
5c	Skin	m	50
5d	Small intestine	m	77
6a	Parathyroid (benigne hyperplasia)	m	67
6b	Lymph node	m	65
6c	Fat	f	50
6d	Artery (A. iliaca, external wall - media and adventitia)	f	40
7a	Urinary bladder	f	60
7b	Thymus	m	35
7c	Lung	f	52

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1110

Position	Organ (Specifications)	Sex	Age
7d	Colon (smooth muscle - muscularis media)	m	66
8a	Heart	m	45
8b	Prostate	m	65
8c	Ovarian stroma	f	55

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Normal adult tissue II

Cat.-No.: 401 1120

Sample Datasheet

Slide Label							
	a	b	c	d	e	f	g
1	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●
3	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●
5	●	●	●	●	●	●	●
6	●	●	●	●	●	●	●
7	●	●	●	●	●	●	●
8	●	●	●	●	●	●	
9		●	●	●	●	●	
10		●	●	●	●	●	
11		●	●	●	●	●	

Technical Information: 70 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1120

Position	Organ	Tissue Specification	Sex	Age
1a	brain	central nerval system/ cortex frontal	f	56
1b	brain	central nerval system/ cortex frontal	m	72
1c	brain	central nerval system/ cortex frontal	m	42
1d	brain	central nerval system/ cortex frontal	f	52
1e	brain	central nerval system/ cortex frontal	m	20
1f	colon	mucosa	m	63
1g	colon	mucosa	m	58
2a	colon	mucosa	f	78
2b	colon	mucosa	m	37
2c	colon	mucosa	m	66
2d	heart	myocard left ventricle	f	45
2e	heart	myocard left ventricle	m	61
2f	heart	myocard left ventricle	f	69
2g	heart	myocard left ventricle	f	77
3a	heart	myocard left ventricle	f	75
3b	kidney	cortex	m	62
3c	kidney	cortex	f	45
3d	kidney	cortex	m	61
3e	kidney	cortex	m	53
3f	kidney	cortex	f	61
3g	liver	parenchyma	m	54
4a	liver	parenchyma	f	77
4b	liver	parenchyma	m	72
4c	liver	parenchyma	f	66
4d	liver	parenchyma	m	65
4e	lung	parenchyma	m	77
4f	lung	parenchyma	f	39

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1120

Position	Organ	Tissue Specification	Sex	Age
4g	lung	parenchyma	m	20
5a	lung	parenchyma	f	52
5b	lung	parenchyma	m	78
5c	muscle	skeletal muscle	m	62
5d	muscle	skeletal muscle	m	62
5e	muscle	skeletal muscle	m	53
5f	muscle	skeletal muscle	m	63
5g	muscle	skeletal muscle	m	60
6a	spleen	parenchyma	m	76
6b	spleen	parenchyma	m	47
6c	spleen	parenchyma	m	72
6d	spleen	parenchyma	f	65
6e	spleen	parenchyma	m	62
6f	testis	parenchyma	m	74
6g	testis	parenchyma	m	70
7a	testis	parenchyma	m	38
7b	testis	parenchyma	m	66
7c	testis	parenchyma	m	68
7d	ovary/ uterus	uterus endometrium	f	39
7e	ovary/ uterus	uterus endometrium	f	45
7f	ovary	ovary cortex	f	25
7g	ovary	ovary cortex	f	49
8a	ovary	ovary cortex	f	52
8b	pancreas	parenchyma	f	68
8c	pancreas	parenchyma	f	76
8d	pancreas	parenchyma	m	72
8e	pancreas	parenchyma	m	56

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
 Cat.-No.: 401 1120

Position	Organ	Tissue Specification	Sex	Age
8f	pancreas	parenchyma	m	75
9a				
9b	small intestine	mucosa	m	73
9c	small intestine	mucosa	m	49
9d	small intestine	mucosa	m	49
9e	small intestine	mucosa	f	69
9f	small intestine	mucosa	m	77
10a				
10b	rectum	mucosa	m	55
10c	rectum	mucosa	m	53
10d	rectum	mucosa	m	57
10e	rectum	mucosa	f	63
10f	rectum	mucosa	m	66
11a				
11b	skin	epidermis	m	47
11c	skin	epidermis	m	37
11d	skin	epidermis	m	91
11e	skin	epidermis	m	55
11f	skin	epidermis	m	50

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Normal Tissue according to FDA panel

Cat.-No.: 401 1130

Sample Datasheet

Slide Label									
	a	b	c	d	e	f	g	h	i
1	Adrenal gland	Adrenal gland	Adrenal gland	Bladder	Bladder	Bladder	Bone marrow	Bone marrow	Bone marrow
2	Blood cells	Blood cells	Blood cells	Cerebellum	Cerebellum	Cerebellum	Cerebral cortex	Cerebral cortex	Cerebral Cortex
3	Breast	Breast	Breast	Cecum	Cecum	Cecum	Ascending Colon	Ascending Colon	Ascending Colon
4	Descending Colon	Descending Colon	Descending Colon	Sigmoid Colon	Sigmoid Colon	Sigmoid Colon	Artery	Artery	Artery
5	Vein	Vein	Vein	Fallopian tube	Fallopian tube	Fallopian tube	Esophagus	Esophagus	Esophagus
6	Stomach	Stomach	Stomach	Jejunum	Jejunum	Jejunum	Ileum	Ileum	Ileum
7	Myocardium	Myocardium	Myocardium	Kidney – Cortex	Kidney – Cortex	Kidney – Cortex	Kidney – Medulla	Kidney – Medulla	Kidney - Medulla
8	Liver – right lobe	Liver – right lobe	Liver – right lobe	Liver – left lobe	Liver – left lobe	Liver – left lobe	Lung	Lung	Lung
9	Lymph node	Lymph node	Lymph node	Ovary	Ovary	Ovary	Pancreas	Pancreas	Pancreas
10	Parathyroid	Parathyroid	Parathyroid	Parotid gland	Parotid gland	Parotid gland	Peripheral nerve	Peripheral nerve	Peripheral nerve
11	Pituitary gland	Pituitary gland	Pituitary gland	Placenta	Placenta	Placenta	Prostate	Prostate	Prostate
12	Skin	Skin	Skin	Spinal cord	Spinal cord	Spinal cord	Spleen	Spleen	Spleen
13	Striated muscle	Striated muscle	Striated muscle	Testis	Testis	Testis	Tonsil	Tonsil	Tonsil
14	Thymus	Thymus	Thymus	Thyroid	Thyroid	Thyroid	Ureter	Ureter	Ureter
15	Uterus – Cervix	Uterus – Cervix	Uterus – Cervix	Uterus – Endometrium	Uterus – Endometrium	Uterus – Endometrium			

Technical Information: 132 spots

- Spot diameter: 1.5 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1130

Position	Organ	Specification	Sex	Age
1a	Adrenal Gland		f	59
1b	Adrenal Gland		m	28
1c	Adrenal Gland		f	26
1d	Bladder (urinary)		m	65
1e	Bladder (urinary)		m	72
1f	Bladder (urinary)		m	57
1g	Bone marrow	Core	f	44
1h	Bone marrow	Core	m	37
1i	Bone marrow	Core	f	25
2a	Blood cells		f	38
2b	Blood cells		f	33
2c	Blood cells		f	50
2d	Brain	Cerebellum	f	88
2e	Brain	Cerebellum	m	72
2f	Brain	Cerebellum	f	57
2g	Brain	Cerebral cortex	f	88
2h	Brain	Cerebral cortex	m	72
2i	Brain	Cerebral cortex	f	56
3a	Breast		f	23
3b	Breast		f	36
3c	Breast		f	73
3d	Colon	Cecum	m	71
3e	Colon	Cecum	m	75
3f	Colon	Cecum	m	76
3g	Colon	Ascending Colon	m	74
3h	Colon	Ascending Colon	m	75
3i	Colon	Ascending Colon	f	56

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1130

Position	Organ	Specification	Sex	Age
4a	Colon	Descending Colon	m	87
4b	Colon	Descending Colon	m	60
4c	Colon	Descending Colon	m	52
4d	Colon	Sigmoid Colon	f	71
4e	Colon	Sigmoid Colon	m	62
4f	Colon	Sigmoid Colon	f	70
4g	Endothelium	Artery	f	83
4h	Endothelium	Artery	f	53
4i	Endothelium	Artery	m	53
5a	Endothelium	Vein	f	67
5b	Endothelium	Vein	f	66
5c	Endothelium	Vein	f	53
5d	Fallopian tube		f	35
5e	Fallopian tube		f	35
5f	Fallopian tube		f	67
5g	Gastrointestinal tract	Esophagus	f	54
5h	Gastrointestinal tract	Esophagus	m	67
5i	Gastrointestinal tract	Esophagus	m	65
6a	Gastrointestinal tract	Stomach (fundus)	m	72
6b	Gastrointestinal tract	Stomach (fundus)	m	63
6c	Gastrointestinal tract	Stomach (fundus)	m	68
6d	Gastrointestinal tract	Jejunum	m	70
6e	Gastrointestinal tract	Jejunum	m	28
6f	Gastrointestinal tract	Jejunum	f	61
6g	Gastrointestinal tract	Ileum	m	75
6h	Gastrointestinal tract	Ileum	f	50
6i	Gastrointestinal tract	Ileum	m	64

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1130

Position	Organ	Specification	Sex	Age
7a	Heart	Myocardium (LV)	f	68
7b	Heart	Myocardium (LV)	m	62
7c	Heart	Myocardium (LV)	m	79
7d	Kidney	Cortex	f	75
7e	Kidney	Cortex	f	64
7f	Kidney	Cortex	f	74
7g	Kidney	Medulla	f	75
7h	Kidney	Medulla	f	64
7i	Kidney	Medulla	f	74
8a	Liver	Right lobe	f	53
8b	Liver	Right lobe	m	61
8c	Liver	Right lobe	f	85
8d	Liver	Left lobe	m	77
8e	Liver	Left lobe	f	66
8f	Liver	Left lobe	f	60
8g	Lung	Including bronchioles	m	73
8h	Lung	Including bronchioles	m	78
8i	Lung	Including bronchioles	m	60
9a	Lymph node	Central lymph node	m	68
9b	Lymph node	Central lymph node	m	79
9c	Lymph node	Central lymph node	f	80
9d	Ovary		f	82
9e	Ovary		f	70
9f	Ovary		f	48
9g	Pancreas		f	54
9h	Pancreas		m	44
9i	Pancreas		m	72

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1130

Position	Organ	Specification	Sex	Age
10a	Parathyroid		m	67
10b	Parathyroid		f	39
10c	Parathyroid		f	65
10d	Parotid gland		f	62
10e	Parotid gland		m	52
10f	Parotid gland		m	69
10g	Peripheral nerve		m	72
10h	Peripheral nerve		f	58
10i	Peripheral nerve		m	70
11a	Pituitary gland		f	77
11b	Pituitary gland		f	57
11c	Pituitary gland		m	42
11d	Placenta		f	22
11e	Placenta		f	28
11f	Placenta		f	33
11g	Prostate		m	45
11h	Prostate		m	42
11i	Prostate		m	45
12a	Skin		m	50
12b	Skin		f	18
12c	Skin		f	55
12d	Spinal cord	Cross-section	f	66
12e	Spinal cord	Cross-section	m	64
12f	Spinal cord	Cross-section	m	49
12g	Spleen		m	79
12h	Spleen		f	51
12i	Spleen		m	48

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1130

Position	Organ	Specification	Sex	Age
13a	Striated muscle		m	65
13b	Striated muscle		m	45
13c	Striated muscle		f	61
13d	Testis		-	22
13e	Testis		m	88
13f	Testis		m	18
13g	Tonsil		m	34
13h	Tonsil		m	37
13i	Tonsil		m	50
14a	Thymus		f	21
14b	Thymus		f	55
14c	Thymus		m	23
14d	Thyroid		f	68
14e	Thyroid		f	59
14f	Thyroid		f	40
14g	Ureter		f	68
14h	Ureter		m	51
14i	Ureter		m	70
15a	Uterus	Cervix	f	44
15b	Uterus	Cervix	f	44
15c	Uterus	Cervix	f	36
15d	Uterus	Endometrial tissue	f	45
15e	Uterus	Endometrial tissue	f	33
15f	Uterus	Endometrial tissue	f	47

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Normal adult brain tissue

Cat.-No.: 401 1210

Sample Datasheet

Slide Label				
	a	b	c	d
1	●	●	●	●
2	●	●	●	●
3	●			

Technical Information: 9 spots

- Spot diameter: 1.5 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1210

Position	Code	Tissue of	Sex	Age
1a	H1	Hippocampus/temporal Cortex	f	88
1b	H2	Medulla oblongata	f	88
1c	H3	Cerebrum, white matter	m	72
1d	H4	Cerebellum, white matter	f	88
2a	H5	Pons	f	88
2b	H6	Cerebellum, white matter	m	72
2c	H7	Cerebellum, cortex	m	72
2d	H8	Basal ganglia/internal capsule	f	88
3a	H9	Pons	f	88

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Normal adult and fetal bone tissue

Cat.-No.: 401 1211

Sample Datasheet

Slide Label				
	a	b	c	d
1	●	●	●	●
2	●	●		
3	●	●		
4	●	●	●	●
5	●	●	●	●
6	●	●	●	●

Technical Information: 20 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1211

Position	Localisation	Tissue	Sex	Age
1a	unknown	fetal	f	37 weeks of gestation
1b	unknown	fetal	f	37 weeks of gestation
1c	unknown	fetal	f	34 weeks of gestation
1d	unknown	fetal	f	34 weeks of gestation
2a	unknown	fetal	m	25 weeks of gestation
2b	unknown	fetal	m	25 weeks of gestation
3a	unknown	fetal	f	40 weeks of gestation
3b	unknown	fetal	f	40 weeks of gestation
4a	Hip	adult	m	68
4b	Hip	adult	m	68
4c	Hip	adult	f	72
4d	Hip	adult	f	72
5a	Femur	adult	m	76
5b	Femur	adult	m	76
5c	Hip	adult	m	61
5d	Hip	adult	m	61
6a	Hip	adult	f	60
6b	Hip	adult	f	60
6c	Femur	adult	f	62
6d	Femur	adult	f	62

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Normal adult cartilage tissue I

Cat.-No.: 401 1221 Sample Datasheet

Slide Label					
	a	b	c	d	e
1	●	●			
2	●	●	●		
3	●	●	●	●	●
4	●	●	●	●	●
5	●	●	●	●	●

Technical Information: 20 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1221

Position	Localisation	Sex	Age
1a	hip	f	50
1b	hip	f	50
2a	hip	m	21
2b	hip	m	21
2c	trachea	m	56
3a	trachea	m	56
3b	knee	m	15
3c	knee	m	15
3d	trachea	m	25
3e	trachea	m	25
4a	trachea	f	53
4b	trachea	f	53
4c	hip	f	53
4d	hip	f	53
4e	trachea	f	57
5a	trachea	f	57
5b	trachea	m	72
5c	trachea	m	72
5d	knee	m	76
5e	knee	m	76

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Normal embryonic and fetal cartilage tissue II

Cat.-No.: 401 1222

Sample Datasheet

Slide Label					
	a	b	c	d	e
1	●	●			
2	●	●	●		
3	●	●	●	●	●
4	●	●	●	●	●
5	●	●	●	●	●

Technical Information: 20 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1222

Position	Localisation	Tissue	Age
1a	humerus	fetal, human, normal	30 weeks of gestation
1b	humerus	fetal, human, normal	30 weeks of gestation
2a	femur	fetal, human, normal	30 weeks of gestation
2b	femur	fetal, human, normal	30 weeks of gestation
2c	femur re	fetal, human, normal	23 weeks of gestation
3a	femur re	fetal, human, normal	23 weeks of gestation
3b	femur + tibia	fetal, human, normal	27 weeks of gestation
3c	femur + tibia	fetal, human, normal	27 weeks of gestation
3d	femur prox.	fetal, human, normal	27 weeks of gestation
3e	femur prox.	fetal, human, normal	27 weeks of gestation
4a	humerus	fetal, human, normal	13 weeks of gestation
4b	humerus	fetal, human, normal	13 weeks of gestation
4c		embryonal, human, normal	12 weeks of gestation
4d		embryonal, human, normal	12 weeks of gestation
4e		embryonal, human, normal	9 weeks of gestation
5a		embryonal, human, normal	9 weeks of gestation
5b		embryonal, human, normal	10 weeks of gestation
5c		embryonal, human, normal	10 weeks of gestation
5d		embryonal, human, normal	8 weeks of gestation
5e		embryonal, human, normal	8 weeks of gestation

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Normal adult and neonatal cartilage tissue I+II

Cat.-No.: 401 1223

Sample Datasheet

Slide Label				
	a	b	c	d
1	●	●	●	●
2	●	●	●	●
3	●	●	●	●
4	●	●	●	●
5	●	●	●	●
6	●	●	●	●
7	●	●	●	●
8	●	●	●	●
9	●	●	●	●
10	●	●		

Technical Information: 38 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1223

Position	Localisation	Tissue	Sex	Age
1a	hip	adult	m	73
1b	hip	adult	m	73
1c	hip	adult	m	79
1d	hip	adult	m	79
2a	hip	adult	f	80
2b	hip	adult	f	80
2c	hip	adult	f	50
2d	hip	adult	f	50
3a	knee	adult	m	76
3b	knee	adult	m	76
3c	knee	adult	m	56
3d	knee	adult	m	56
4a	knee	adult	f	45
4b	knee	adult	f	45
4c	knee	adult	f	33
4d	knee	adult	f	33
5a	knee	adult	f	83
5b	knee	adult	f	83
5c	knee	adult	f	52
5d	knee	adult	f	52
6a	humerus	fetal, normal		30 weeks of gestation
6b	humerus	fetal, normal		30 weeks of gestation
6c	femur	fetal, normal		30 weeks of gestation
6d	femur	fetal, normal		30 weeks of gestation
7a	femur re	fetal, normal		23 weeks of gestation
7b	femur re	fetal, normal		23 weeks of gestation
7c	femur + tibia	fetal, normal		27 weeks of gestation

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1223

Position	Localisation	Tissue	Sex	Age
7d	femur + tibia	fetal, normal		27 weeks of gestation
8a	femur prox.	fetal, normal		27 weeks of gestation
8b	femur prox.	fetal, normal		27 weeks of gestation
8c	humerus	fetal, normal		13 weeks of gestation
8d	humerus	fetal, normal		13 weeks of gestation
9a		embryonal, normal		12 weeks of gestation
9b		embryonal, normal		12 weeks of gestation
9c		embryonal, normal		9 weeks of gestation
9d		embryonal, normal		9 weeks of gestation
10a		embryonal, normal		10 weeks of gestation
10b		embryonal, normal		10 weeks of gestation

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Normal tissue, multi-species

Cat.-No.: 401 1310

Sample Datasheet

Slide Label					
	a	b	c	d	e
1	●	●		●	●
2	●	●	●	●	
3	●	●	●	●	
4	●	●	●	●	
5	●	●	●	●	
6	●	●	●	●	
7	●	●	●	●	
8	●	●	●	●	
9	●	●	●	●	
10	●	●	●	●	
11	●	●	●	●	
12	●	●	●	●	

Technical Information: 48 spots

- Spot diameter: 1.5 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1310

Position	Species	Breed	Organ	Gender
1a	Immunodeficient mouse	CD-1® Nude	heart	F
1b	inbred rat	lewis	heart	M
1c				
1d	domestic pig		heart	M
1e	human		heart	F
2a	Immunodeficient mouse	CD-1® Nude	lung	F
2b	inbred rat	lewis	lung	M
2c	domestic pig		lung	M
2d	human		lung	M
3a	Immunodeficient mouse	CD-1® Nude	liver	F
3b	inbred rat	lewis	liver	M
3c	domestic pig		liver	M
3d	human		liver	M
4a	Immunodeficient mouse	CD-1® Nude	kidney	F
4b	inbred rat	lewis	kidney	M
4c	domestic pig		kidney	M
4d	human		kidney	F
5a	Immunodeficient mouse	CD-1® Nude	stomach	F
5b	inbred rat	lewis	stomach	M
5c	domestic pig		stomach	M
5d	human		stomach	M
6a	Immunodeficient mouse	CD-1® Nude	small intestine	F
6b	inbred rat	lewis	small intestine	M
6c	domestic pig		small intestine	M
6d	human		small intestine	M
7a	Immunodeficient mouse	CD-1® Nude	colon	F
7b	inbred rat	lewis	colon	M

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1310

Position	Species	Breed	Organ	Gender
7c	domestic pig		colon	M
7d	human		colon	M
8a	Immunodeficient mouse	CD-1® Nude	muscle	F
8b	inbred rat	lewis	muscle	M
8c	domestic pig		muscle	M
8d	human		muscle	M
9a	Immunodeficient mouse	CD-1® Nude	skin	F
9b	inbred rat	lewis	skin	M
9c	domestic pig		skin	M
9d	human		skin	F
10a	Immunodeficient mouse	CD-1® Nude	spleen	F
10b	inbred rat	lewis	spleen	M
10c	domestic pig		spleen	M
10d	human		spleen	F
11a	Immunodeficient mouse	CD-1® Nude	brain	F
11b	inbred rat	lewis	brain	M
11c	domestic pig		brain	M
11d	human		brain	M
12a	Immunodeficient mouse	CD-1® Nude	fat	F
12b	inbred rat	lewis	fat	M
12c	domestic pig		fat	M
12d	human		fat	F

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Stem cell rich tissue -Stem Cell TMA[®]

Cat.-No.: 401 1401

Sample Datasheet

Slide Label				
	a	b	c	d
1	●	●	●	
2	●	●		
3	●	●	●	●
4	●	●	●	
5	●	●	●	
6	●	●	●	

Technical Information: 18 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry CD34+

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 1401

Position	Tissue	Sex	week of gestation
1a	abdomen	n.s.	12.
1b	abdomen	n.s.	12.
1c	liver	m	34.
2a	liver	m	34.
2b	liver	m	21.
3a	liver	m	21.
3b	liver	f	25.
3c	liver	f	25.
3d	liver	f	32.
4a	liver	f	32.
4b	liver	m	17.
4c	liver	m	17.
5a	liver	f	18.
5b	liver	f	18.
5c	liver	n.s.	14.
6a	liver	n.s.	14.
6b	liver	n.s.	14.
6c	liver	n.s.	14.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Lymphoma

Cat.-No.: 401 2101 Sample Datasheet

Slide Label					
	a	b	c	d	e
1	●	●			
2	●	●	●		
3	●	●	●	●	●
4	●	●	●	●	●
5	●	●	●	●	●

Technical Information: 20 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2101

Position	Tissue	Diagnostics	ICD-O	Sex	Age
1a	Lymph node	normal		m	53
1b	Lymph node	normal		m	53
2a	tonsil	normal		m	51
2b	tonsil	normal		m	51
2c	Lymph node	BCLL	9823/3	m	64
3a	Lymph node	BCLL	9823/3	m	64
3b	Lymph node	Mantle cell lymphoma	9673/3	m	63
3c	Lymph node	Mantle cell lymphoma	9673/3	m	63
3d	Lymph node	DLBCL	9680/3	m	60
3e	Lymph node	DLBCL	9680/3	m	60
4a	Lymph node	DLBCL	9680/3	m	39
4b	Lymph node	DLBCL	9680/3	m	39
4c	Lymph node	DLBCL	9680/3	f	69
4d	Lymph node	DLBCL	9680/3	f	69
4e	Lymph node	Hodgkin	9652/3	f	33
5a	Lymph node	Hodgkin	9652/3	f	33
5b	Lymph node	Hodgkin	9663/3	f	20
5c	Lymph node	Hodgkin	9663/3	f	20
5d	Lymph node	T-NHL-NOS	9702/10	m	62
5e	Lymph node	T-NHL-NOS	9702/10	m	62

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Colon Carcinoma

Cat.-No.: 401 2201

Sample Datasheet

Slide Label						
	a	b	c	d	e	f
1	●	●	●	●	●	●
2	●	●	●	●	●	●
3	●	●	●	●	●	●
4	●	●	●	●	●	●
5	●	●	●	●	●	●
6	●	●	●	●	●	●
7	●	●	●	●		
8	●	●	●	●	●	●
9	●	●	●	●		
10	●	●	●	●	●	
11	●	●	●	●	●	

Technical Information: 60 spots

- Spot diameter: 1.5 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2201

Position	Organ (Specification)	Sex	Age	Stage pT	Stage pN	Stage pM	Grade
1a	primary tumor (adenocarcinoma)	f	72	3	1	X	2
1b	primary tumor (adenocarcinoma)	f	96	3	0	X	2
1c	primary tumor (adenocarcinoma)	m	60	3	1	X	2
1d	primary tumor (adenocarcinoma)	f	67	2	0	X	2
1e	primary tumor (adenocarcinoma)	m	55	3	1	X	2
1f	primary tumor (adenocarcinoma)	f	88	3	X	X	3
2a	primary tumor (adenocarcinoma)	f	65	4	1	X	2
2b	primary tumor (adenocarcinoma)	m	73	3	2	X	3
2c	primary tumor (adenocarcinoma)	f	74	3	2	1	2
2d	primary tumor (adenocarcinoma)	m	74	2	0	X	2
2e	primary tumor (adenocarcinoma)	m	55	3	3	X	2
2f	primary tumor (adenocarcinoma)	m	66	3	1	X	2
3a	primary tumor (adenocarcinoma)	f	84	3	1	X	2
3b	primary tumor (adenocarcinoma)	f	60	1	0	X	2
3c	primary tumor (adenocarcinoma)	f	75	3	1	X	2
3d	primary tumor (adenocarcinoma)	f	78	2	1	X	2
3e	primary tumor (adenocarcinoma)	m	67	3	0	X	2
3f	primary tumor (adenocarcinoma)	f	77	3	0	X	2

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2201

Position	Organ (Specification)	Sex	Age	Stage pT	Stage pN	Stage pM	Grade
4a	primary tumor (adenocarcinoma)	m	84	3	1	X	2
4b	primary tumor (adenocarcinoma)	f	81	3	1	X	3
4c	primary tumor (adenocarcinoma)	m	89	3	2	X	2
4d	primary tumor (adenocarcinoma)	f	57	4	2	1	3
4e	primary tumor (adenocarcinoma)	m	79	3	1	X	2
4f	primary tumor (adenocarcinoma)	f	74	2	2	X	2
5a	primary tumor (adenocarcinoma)	f	59	4	0	X	2
5b	primary tumor (adenocarcinoma)	f	73	3	1	1	2
5c	primary tumor (adenocarcinoma)	m	68	2	1	X	2
5d	primary tumor (adenocarcinoma)	m	40	4	3	X	3
5e	primary tumor (adenocarcinoma)	f	74	3	0	X	2
5f	primary tumor (adenocarcinoma)	m	67	3	2	X	2
6a	primary tumor (adenocarcinoma)	f	72	3	2	X	2
6b	primary tumor (adenocarcinoma)	f	78	3	0	X	1
6c	primary tumor (adenocarcinoma)	m	65	3	1	X	2
6d	primary tumor (adenocarcinoma)	f	36	3	0	1	2
6e	primary tumor (adenocarcinoma)	f	76	3	0	X	2
6f	primary tumor (adenocarcinoma)	f	78	2	0	X	2
7a	primary tumor	f	61	1	X	X	2

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Mamma Carcinoma

Cat.-No.: 401 2202 Sample Datasheet

Slide Label						
	a	b	c	d	e	f
1	●	●	●	●	●	●
2	●	●	●	●	●	●
3	●	●	●	●	●	●
4	●	●	●	●	●	●
5	●	●	●	●	●	●
6	●	●	●	●	●	●
7	●	●	●	●		
8	●	●	●	●		●
9	●	●	●	●	●	●
10	●	●	●			
11	●	●	●	●	●	

Technical Information: 59 spots

- Spot diameter: 1.5 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2202

Position	Organ (Specification)	Sex	Age	Stage pT	Stage pN	Stage pM	Grade
1a	ID-CA	f	67	2	0(0/12)	x	2
1b	ID-CA	f	90	1c	1biii	x	2
1c	ID-CA	f	25	2	x(0/2)	x	3
1d	ID-CA	f	49	2	1bi(1/18)	x	1
1e	ID-CA	f	60	3	1biii	x	3
1f	ID-CA	f	56	1c	0	x	1
2a	ID-CA	f	58	2	x	x	3
2b	ID-CA	f	39	1c	0	x	1
2c	ID-CA	f	73	2	0	x	3
2d	ID-CA	f	56	2	1biv	x	2
2e	ID-CA	f	42	2	1biii	x	3
2f	ID-CA	f	42	1c	1biv	x	3
3a	ID-CA	f	52	1c	0	x	2
3b	ID-CA	f	54	1c	0	x	1
3c	ID-CA	f	66	1c	1biii	x	1
3d	ID-CA	f	53	1b	0	x	2
3e	ID-CA	f	72	2	1biii	x	1
3f	ID-CA	f	46	1c	x	x	1
4a	ID-CA	f	52	1b	x	x	3
4b	ID-CA	f	40	2	x	x	2
4c	ID-CA	f	58	2	0	x	2
4d	ID-CA	f	60	4b	0	x	3
4e	ID-CA	f	63	1c	1biv(9/54)	x	2
4f	ID-CA	f	62	2	1a	x	2
5a	ID-CA	f	69	1b	0	x	1
5b	ID-CA	f	70	2	0	x	3
5c	ID-CA	f	45	1c	1biii	x	2

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2202

Position	Organ (Specification)	Sex	Age	Stage pT	Stage pN	Stage pM	Grade
5d	ID-CA	f	48	2	1biv	x	2
5e	ID-CA	f	46	1b	0(0/20)	x	3
5f	ID-CA	f	65	4b	2	x	2
6a	ID-CA	f	65	1c	0	x	3
6b	ID-CA	f	57	1c	0	x	3
6c	ID-CA	f	75	2	x	X	2
6d	ID-CA	f	65	2	0	x	2
6e	ID-CA	f	59	1c	0	x	2
6f	ID-CA	f	50	2	0	x	2
7a	ID-CA	f	64	1c	0	x	1
7b	ID-CA	f	63	1b	0	x	2
7c	ID-CA	f	43	2	2	x	3
7d	ID-CA	f	25	2	0	x	3
8a	IL-CA	f	52	2	0	x	2
8b	IL-CA	f	50	2	1bi	x	2
8c	IL-CA	f	59	2	1biv	x	2
8d	IL-CA	f	56	1c	0	x	2
8f	IL-CA	f	60	1c	1a	x	1
9a	IL-CA	f	57	1c	0	x	2
9b	IL-CA	f	45	1c	0(0/11)	x	2
9c	IL-CA	f	47	2	1biii(4/15)	x	2
9d	IL-CA	f	55	1b	0(0/15)	x	2
9e	IL-CA	f	69	1c	0	x	2
9f	IL-CA	f	59	1c	x	x	2
10a	IL-CA	f	65	1c	x	x	2
10b	IL-CA	f	58	2	1a	x	2

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2202

Position	Organ (Specification)	Sex	Age	Stage pT	Stage pN	Stage pM	Grade
10c	IL-CA	f	74	2	0	x	2
11a	normal breast	f	48				
11b	normal breast	f	30				
11c	normal breast	f	39				
11d	normal breast, fibrous tissue	f	21				
11e	normal breast, fibrous tissue	f	61				

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Cervical Carcinoma

Cat.-No.: 401 2203 Sample Datasheet

Slide Label						
	a	b	c	d	e	f
1	●	●	●	●	●	●
2	●	●	●	●	●	●
3	●	●	●	●	●	●
4	●	●	●	●	●	●
5	●	●	●	●	●	●
6	●	●	●	●	●	●
7	●	●	●	●	●	●
8						
9	●	●	●	●	●	
10	●	●	●	●	●	

Technical Information: 52 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2203

Position	Diagnostics	Sex	Age	Stage pT	Stage pN	Stage pM	Grade
1a	SCC	f	48	4	0	X	3
1b	SCC	f	30	2b	0	X	3
1c	SCC	f	31	X	1	1	3
1d	SCC	f	39	1b	0	X	3
1e	ADC	f	46	2b	0	X	2
1f	SCC	f	32	4	0	X	3
2a	SCC	f	69	2	X	X	2
2b	SCC	f	45	1b	0	X	2
2c	SCC	f	61	1b	0	X	2
2d	SCC	f	41	1b	0	X	2
2e	SCC	f	44	1b	0	X	2
2f	SCC	f	52	2b	1	X	3
3a	SCC	f	43	1b	0	X	2
3b	SCC	f	43	2b	0	X	2
3c	SCC	f	38	y1b	0	X	3
3d	SCC	f	36	2b	1	X	2
3e	SCC	f	62	2	0	X	2
3f	SCC	f	25	1b	1	X	3
4a	SCC	f	47	2b	1	1	2
4b	lymph node metastasis	f	47	2b	1	1	2
4c	SCC	f	72	2b	X	X	3
4d	SCC	f	40	1b	0	X	2
4e	SCC	f	38	1 a1	X	x	2
4f	SCC	f	68	1 b1	0	x	2
5a	SCC	f	50	2b	1	X	3
5b	lymph node metastasis	f	50	2b	1	X	3
5c	SCC	f	43	1b	1	X	2

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2203

Position	Diagnostics	Sex	Age	Stage pT	Stage pN	Stage pM	Grade
5d	SCC	f	69	1	X	X	3
5e	SCC	f	56	2b	0	X	3
5f	SCC	f	32	2b	1	X	2
6a	SCC	f	46	2a	0	X	3
6b	SCC	f	70	2b	0	X	2
6c	SCC	f	62	X	X	1	3
6d	Peritumorous inflammatory tissue	f	49	y2b	X	1	3
6e	SCC	f	35	1b2	0	X	2
6f	SCC	f	69	4	0	X	2
7a	SCC	f	42	2b	1	X	2
7b	SCC	f	58	2b	X	X	3
7c	SCC	f	44	1b1	X	X	2
7d	SCC	f	33	1b1	0	X	2
7e	SCC	f	37	1b1	0	X	3
7f	SCC	f	59	1bi	0	X	3
9a	CIN III lesion	f	50				
9b	CIN III lesion	f	63				
9c	Cervix mucosa near CIN III lesion	f	40				
9d	CIN III lesion	f	29				
9e	Cervix mucosa near CIN III lesion	f	26				
10a	normal mucosa	f	30				
10b	normal mucosa	f	32				
10c	normal mucosa	f	35				
10d	normal cervix, fibrous tissue	f	36				
10e	normal mucosa	f	35				

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Lung Carcinoma

Cat.-No.: 401 2204 Sample Datasheet

Slide Label							
	a	b	c	d	e	f	g
1	●	●	●	●			
2	●	●	●	●	●	●	●
3	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●
5	●	●	●	●			
6	●	●	●	●	●	●	●
7	●	●	●	●	●	●	●
8	●	●	●	●	●	●	●
9	●	●	●	●			
10		●	●	●	●	●	●

Technical Information: 60 spots

- Spot diameter: 1.5 mm (tumor) & 2.0 mm (normal)
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2204

Position	Diagnostics	Sex	Age	Stage pT	Stage pN	Stage pM	Grade	punching size
1a	SCLC	m	61	1	x	x	x	1.5 mm
1b	SCLC	m	65	1	x	x	x	1.5 mm
1c	SCLC	m	53	2	x	x	3	1.5 mm
1d	SCLC	m	59	2	1	x	4	1.5 mm
2a	SCC	m	54	2	0	x	2	1.5 mm
2b	SCC	m	69	2	0	x	2	1.5 mm
2c	SCC	m	63	2	0	x	2	1.5 mm
2d	SCC	m	61	2	0	x	2	1.5 mm
2e	SCC	m	55	2	0	x	2	1.5 mm
2f	SCC	m	71	2	2	x	2	1.5 mm
2g	SCC	m	66	3	0	x	2	1.5 mm
3a	SCC	m	66	1	0	x	2	1.5 mm
3b	SCC	m	55	2	2	x	3	1.5 mm
3c	SCC	f	60	2	0	x	2	1.5 mm
3d	SCC	f	61	2	0	x	2	1.5 mm
3e	SCC	m	64	2	0	x	2-3	1.5 mm
3f	SCC	m	76	2	0	x	3	1.5 mm
3g	SCC	m	65	2	0	x	2	1.5 mm
4a	SCC	f	58	2	1	x	2	1.5 mm
4b	SCC	m	60	2	2	x	3	1.5 mm
4c	SCC	m	55	2	0	x	3	1.5 mm
4d	SCC	m	67	2	0	x	2	1.5 mm
4e	SCC	m	59	2	2	x	3	1.5 mm
4f	SCC	m	68	2	0	x	2	1.5 mm
4g	SCC	m	50	4	1	x	2-3	1.5 mm
5a	SCC	f	63	2	0	x	2	1.5 mm
5b	SCC	m	76	2	0	x	2	1.5 mm

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2204

Position	Diagnostics	Sex	Age	Stage pT	Stage pN	Stage pM	Grade	punching size
5c	SCC	m	49	3	2	x	2	1.5 mm
5d	SCC	m	56	2	1	x	3	1.5 mm
6a	ADC	m	60	2	2	x	3	1.5 mm
6b	ADC	m	66	3	2	x	3	1.5 mm
6c	ADC	m	66	1	0	x	3	1.5 mm
6d	ADC	m	35	2	1	x	3	1.5 mm
6e	ADC	m	77	2	0	x	2	1.5 mm
6f	ADC	m	47	2	1	x	3	1.5 mm
6g	ADC	m	56	2	3	x	2-3	1.5 mm
7a	ADC	f	72	2	0	x	2	1.5 mm
7b	ADC	f	62	1	1	x	2	1.5 mm
7c	ADC	m	60	2	0	x	3	1.5 mm
7d	ADC	f	57	2	0	x	2	1.5 mm
7e	ADC	f	68	1	0	x	2	1.5 mm
7f	ADC	f	66	1	0	x	2-3	1.5 mm
7g	ADC	f	45	2	1	x	2	1.5 mm
8a	ADC	m	55	2	2	x	3	1.5 mm
8b	ADC	m	51	2	2	x	3	1.5 mm
8c	ADC	m	62	2	0	x	2	1.5 mm
8d	ADC	m	70	2	0	x	3	1.5 mm
8e	ADC	m	60	1	0	x	2	1.5 mm
8f	ADC	f	53	2	0	x	2	1.5 mm
8g	ADC	m	66	3	1	x	3	1.5 mm
9a	ADC	m	65	2	1	x	2-3	1.5 mm
9b	ADC	m	63	3	3	x	3	1.5 mm
9c	ADC	m	63	2	0	x	2	1.5 mm
9d	ADC	m	60	2	1	x	3	1.5 mm

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
 Cat.-No.: 401 2204

Position	Diagnostics	Sex	Age	Stage pT	Stage pN	Stage pM	Grade	punching size
10a								
10b	normal lung	m	70					2.0 mm
10c	normal lung with bronchioles	f	46					2.0 mm
10d	normal lung	m	70					2.0 mm
10e	normal lung with bronchioles	m	42					2.0 mm
10f	normal lung with arteria	f	46					2.0 mm
10g	normal lung	m	70					2.0 mm

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Thyroid Carcinoma

Cat.-No.: 401 2205

Sample Datasheet

Slide Label								
	a	b	c	d	e	f	g	h
1	●	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●	●
3	●	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●	●
5	●	●	●	●	●	●	●	●
6	●	●	●	●	●	●	●	●
7	●	●	●	●	●			
8	●	●	●	●	●	●	●	●
9	●	●	●	●	●	●	●	●
10	●	●	●	●	●	●	●	●
11	●	●	●	●	●	●	●	●
12	●	●	●	●	●	●	●	●
13	●	●	●	●	●	●	●	●

Technical Information: 101 spots

- Spot diameter: 1.5 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2205

Position	Diagnostics	Specification	Sex	Age	Stage pT	Stage pN	Remarks
1a	adenoma	predominantly macrofollicular	m	40			
1b	adenoma	predominantly macrofollicular	f	41			
1c	adenoma	predominantly macrofollicular	m	58			
1d	adenoma	predominantly macrofollicular	f	66			
1e	adenoma	predominantly macrofollicular	f	55			
1f	adenoma	predominantly macrofollicular	f	24			
1g	adenoma	predominantly macrofollicular	f	42			
1h	adenoma	predominantly macrofollicular	m	66			
2a	adenoma	predominantly macrofollicular	m	52			
2b	adenoma	predominantly macrofollicular	f	37			
2c	adenoma	predominantly macrofollicular	f	48			
2d	adenoma	predominantly macrofollicular	f	47			
2e	adenoma	predominantly macrofollicular	f	33			
2f	adenoma	predominantly macrofollicular	f	76			
2g	adenoma	predominantly macrofollicular	f	54			
2h	adenoma	predominantly macrofollicular	m	60			
3a	adenoma	predominantly macrofollicular	f	34			
3b	adenoma	predominantly macrofollicular	f	79			
3c	adenoma	follicular	m	41			

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 2205

Position	Diagnostics	Specification	Sex	Age	Stage pT	Stage pN	Remarks
3d	adenoma	follicular	m	45			
3e	adenoma	follicular	f	48			
3f	adenoma	follicular	f	35			
3g	adenoma	follicular	f	51			
3h	adenoma	follicular	m	68			
4a	adenoma	follicular	m	40			
4b	adenoma	follicular	f	55			
4c	adenoma	follicular	f	47			
4d	adenoma	follicular	f	50			
4e	adenoma	follicular	f	44			
4f	adenoma	follicular	m	39			
4g	adenoma	oxyphil	f	67			
4h	adenoma	oxyphil	f	46			
5a	carcinoma	follicular	m	39	2	X	Same patient sampel as 4f
5b	carcinoma	follicular	m	34	2	X	
5c	carcinoma	follicular	m	60	2	X	
5d	Regional carcinoma of metastais	follicular	f	59	X	1	
5e	carcinoma	papillary	f	66	(m)2	X	
5f	normal		m	66			
5g	carcinoma	papillary	f	27	1	0	
5h	carcinoma	papillary	f	46	2	X	
6a	carcinoma	papillary	m	67	2	X	
6b	Normal thyroid	papillary	m	56			direct immediately agent to papillary carcinoma
6c	carcinoma, lymph node metastasis	papillary	m	56	4	1b	Same patient sample as 6b

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2205

Position	Diagnostics	Specification	Sex	Age	Stage pT	Stage pN	Remarks
6d	carcinoma	papillary	f	48	1	X	
6e	carcinoma	papillary	m	27	2	X	
6f	carcinoma	medullary	f	48	2	0	
6g	carcinoma	medullary	m	42	y4	y1b	
6h	Carcinoma, lymph node metastasis	medullary	m	42	y4	y1b	Same patient sample as 6g
7a	carcinoma	medullary	m	44	2	1	
7b	carcinoma	undiffernciated (insular)	m	77	4	X	
7c	carcinoma	undiffernciated (anaplastic)	f	42	4a	1	
7d	metastasis renal cell carcinoma	Clear cell	f	69			
7e	Metastasis renal cell carcinoma	Clear cell	m	75			
8a	Normal		m	40			Same patient as sample 1a
8b	Normal		f	41			Same patient as sample 1b
8c	Normal		m	58			Same patient as sample 1c
8d	Normal		f	66			Same patient as sample 1d
8e	Normal		m	52			Same patient as sample 2a
8f	Normal		f	47			Same patient as sample 2d
8g	Normal		m	41			Same patient as sample 3c
8h	Normal		m	45			Same patient as sample 3d
9a	Normal		f	51			Same patient as sample 3g
9b	Normal		m	68			Same patient as sample 3h

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2205

Position	Diagnostics	Specification	Sex	Age	Stage pT	Stage pN	Remarks
9c	Normal		m	40			Same patient as sample 4a
9d	Normal		f	55			Same patient as sample 4b
9e	Normal		f	50			Same patient as sample 4d
9f	Normal		m	39			Same patient as sample 4f
9g	Normal with partially lymphocytic thyroiditis		f	34			Same patient as sample 3a
9h	Normal with partially lymphocytic thyroiditis		f	44			Same patient as sample 4e
10a	Normal with partially lymphocytic thyroiditis		f	46			Same patient as sample 4h
10b	Normal		m	39			Same patient as sample 4f
10c	Normal		m	34			Same patient as sample 5b
10d	Normal		m	60			Same patient as sample 5c
10e	Normal		f	59			Same patient as sample 5d
10f	Normal		f	66			Same patient as sample 5e
10g	Normal		f	27			Same patient as sample 5g
10h	Normal		f	46			Same patient as sample 5h
11a	Normal		m	67			Same patient as sample 6a
11b	Normal		m	56			Same patient as sample 6c
11c	Normal		f	48			Same patient as sample 6d
11d	Normal		m	27			Same patient as sample 6e
11e	Normal		f	48			Same patient as

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2205

Position	Diagnostics	Specification	Sex	Age	Stage pT	Stage pN	Remarks
							sample 6f
11f	Normal		m	44			Same patient as sample 7a
11g	Normal		m	77			Same patient as sample 7b
11h	Normal		f	69			Same patient as sample 7d
12a	Normal		m	75			Same patient as sample 7e
12b	Normal		f	41			
12c	Normal		f	55			
12d	Normal		m	29			
12e	Normal		f	65			
12f	Normal		f	66			
12g	Normal		f	56			
12h	Normal with partially lymphocytic thyroiditis		f	57			
13a	Morbus Basedow (Grave's disease/ diffuse toxic goiter)		f	44			
13b	Morbus Basedow (Grave's disease/ diffuse toxic goiter)		f	59			
13c	Morbus Basedow (Grave's disease/ diffuse toxic goiter)		f	49			
13d	Morbus Basedow (Grave's disease/ diffuse toxic goiter)		f	48			
13e	Morbus Basedow (Grave's disease/ diffuse toxic goiter)		f	37			
13f	Morbus Basedow (Grave's disease/ diffuse toxic goiter)		f	39			
13g	Morbus Basedow (Grave's disease/		f	51			

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 2205

Position	Diagnostics	Specification	Sex	Age	Stage pT	Stage pN	Remarks
	diffuse toxic goiter)						
13h	Morbus Basedow (Grave's disease/ diffuse toxic goiter)		f	38			

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Pancreas Carcinoma

Cat.-No.: 401 2206

Sample Datasheet

Slide Label								
	a	b	c	d	e	f	g	h
1	●	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●	●
3	●	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●	●
5	●	●	●	●	●	●	●	●
6	●	●						
7	●	●	●	●	●	●	●	●
8	●	●	●	●	●			
9	●	●	●	●	●	●	●	●
10	●	●	●	●	●	●	●	●
11	●	●	●	●	●	●	●	●
12	●	●	●	●	●	●	●	
13	●	●	●	●	●	●	●	●
14	●	●						

Technical Information: 96 spots

- Spot diameter: 1.5 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2206

Position	Diagnosis	Specification	Sex	Age	pT	pN	pM	Grade	Remarks
1a	ADC	ductal	m	69	4	1	X	2	collision carcinoma (ductal/ neuroendocrine)
1b	ADC	ductal	f	67	3	1b	x	3	
1c	ADC	ductal	f	60	3	1b	x	2	
1d	ADC	ductal	m	60	3	1	x	3	
1e	ADC	ductal	m	73	4	1	x	2	
1f	ADC	ductal	m	83	3	1	x	3	
1g	ADC	ductal	f	56	3	1	X	2	
1h	ADC	ductal	f	65	3	1	x	3	
2a	ADC	ductal	f	59	3	1	x	2	
2b	ADC	ductal	m	65	3	1	x	3	
2c	ADC	ductal	m	69	3	1b	x	2	
2d	ADC	ductal	m	59	3	1	x	2	
2e	ADC	ductal	f	84	Tis	x	x	1	
2f	ADC	ductal	m	72	3	1	x	3	
2g	ADC	mucinous	f	55	3	1	x	3	
2h	carcinoma	adenosquamous	f	76	4	1	x	3	
3a	carcinoma	adenosquamous	f	71	3	1a	x	3	
3b	carcinoma	adenosquamous	m	73	3	1	x	3	
3c	carcinoma	adenosquamous	m	71	3	1	X	3	
3d	carcinoma	adenosquamous	m	73	3	1	X	3	
3e	carcinoma	adenosquamous	m	78	3	1	x	X	
3f	carcinoma	ampullary	f	67	4	0	x	2	
3g	carcinoma	ampullary	m	79	3	1	X	3	
3h	carcinoma	ampullary	m	72	3	0	X	3	
4a	carcinoma	ampullary	f	80	3	1	x	3	
4b	carcinoma	ampullary	f	69	4	1	X	2	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 2206

Position	Diagnosis	Specification	Sex	Age	pT	pN	pM	Grade	Remarks
4c	carcinoma	ampullary	f	72	4	1	X	3	
4d	NEC		m	69	3	1	X	2	same patient as sample 1a: collision carcinoma (ductal/ neuroendocrine)
4e	NEC		m	58	3	X	X	1	
4f	NEC		m	38	3	1	X	1	
4g	NEC		m	41	2	1	X	2	
4h	NEC		m	69	4	x	x	1	
5a	NEC		f	65	3	1	X	1	
5b	NEC		f	67	1	0	X	1	
5c	NEC		m	74	3	1	X	3	
5d	NEC		m	44	4	1	X	1	
5e	NEC		f	54	3	1	X	1	
5f	ADC		m	61	3	1	X	2	
5g	ADC		m	72	4	1	x	3	
5h	ADC		m	53	3	1	X	3	
6a	ADC		f	62	3	1	X	2	
6b	ADC		f	73	3	1	X	2	
7a	NEC, lymph node metastasis	NEC	m	69	4	1	X	2	same patient as sample 1a and 4d
7b	ADC, lymph node metastasis	ductal	f	67	3	1b	x	3	same patient as sample 1b
7c	ADC, lymph node metastasis	ductal	f	60	3	1b	X	2	same patient as sample 1c
7d	ADC, lymph node metastasis	ductal	m	60	3	1	X	3	same patient as sample 1d
7e	ADC, lymph node metastasis	ductal	f	56	3	1	X	2	same patient as sample 1g
7f	ADC, lymph node metastasis	ductal	f	59	3	1	X	2	same patient as sample 2a

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2206

Position	Diagnosis	Specification	Sex	Age	pT	pN	pM	Grade	Remarks
7g	ADC, lymph node metastasis	ductal	m	65	3	1	X	3	same patient as sample 2b
7h	ADC, lymph node metastasis	mucinous	f	55	3	1	X	3	same patient as sample 2g
8a	ADC, lymph node metastasis	adenosquamous	m	73	3	1	X	3	same patient as sample 3d
8b	ADC, lymph node metastasis	adenosquamous	m	78	3	1	X	x	same patient as sample 3e
8c	ADC, lymph node metastasis	ampullary	m	79	3	1	X	3	same patient as sample 3g
8d	NEC, lymph node metastasis	NEC	f	54	3	1	X	1	same patient as sample 5e
8e	ADC, lymph node metastasis		f	62	3	1	X	2	same patient as sample 6a
9a	normal		f	67					same patient as sample 1b
9b	normal		f	60					same patient as sample 1c
9c	normal		m	60					same patient as sample 1d
9d	normal		m	73					same patient as sample 1e
9e	normal		m	83					same patient as sample 1f
9f	normal		f	56					same patient as sample 1g
9g	normal		m	55					
9h	normal		f	59					same patient as sample 2a
10a	normal		m	65					same patient as sample 2b & 7g
10b	normal		m	72					same patient as sample 2f
10c	normal		f	76					same patient as sample 2h
10d	normal		f	71					same patient as sample 3a

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2206

Position	Diagnosis	Specification	Sex	Age	pT	pN	pM	Grade	Remarks
10e	normal		m	71					same patient as sample 3c
10f	normal		m	73					same patient as sample 3d & 8a
10g	normal		m	78					same patient as sample 3e & 8b
10h	normal		f	67					same patient as sample 3f
11a	normal		m	79					same patient as sample 3g & 8c
11b	normal		m	51					
11c	normal		f	80					same patient as sample 4a
11d	normal		f	69					same patient as sample 4b
11e	normal		f	67					
11f	normal		f	72					same patient as sample 4c
11g	normal		m	58					same patient as sample 4e
11h	normal		m	38					same patient as sample 4f
12a	normal		m	41					same patient as sample 4g
12b	normal		m	69					same patient as sample 4h
12c	normal		f	67					same patient as sample 5b
12d	normal		m	74					same patient as sample 5c
12e	normal		f	74					
12f	normal		m	72					same patient as sample 5g
12g	normal		m	53					same patient as sample 5h

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2206

Position	Diagnosis	Specification	Sex	Age	pT	pN	pM	Grade	Remarks
13a	pancreatitis (chronic)		m	68					
13b	pancreatitis (chronic)		m	42					mainly sclerosis
13c	pancreatitis (chronic)		m	40					and fibrosis
13d	pancreatitis (chronic)		m	42					and scleroris
13e	pancreatitis (chronic)		f	45					and fibrosis
13f	pancreatitis (chronic)		m	45					
13g	pancreatitis (chronic)		m	64					
13h	pancreatitis (chronic)		m	47					and scleroris
14a	pancreatitis (chronic)		f	45					and scleroris
14b	pancreatitis (chronic)		m	36					and scleroris

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Esophagus Carcinoma

Cat.-No.: 401 2207

Sample Datasheet

Slide Label						
	a	b	c	d	e	f
1	●	●	●	●	●	●
2	●	●	●	●	●	●
3	●	●	●	●	●	●
4	●	●	●	●	●	●
5	●	●	●	●	●	●
6	●	●	●	●	●	●
7	●	●	●	●	●	●
8	●	●	●	●	●	●
9	●	●	●	●	●	●
10	●	●	●	●	●	●
11	●	●	●			

Technical Information: 63 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 2207

Position	Organ (specifications)	Sex	Age	Stage pT	Stage pN	Stage pM	Grade	Remarks
1a, b, c	SCC	m	68	3	1	x	3	
1d, e, f	SCC	m	60	3	1	x	2	
2a, b, c	SCC	m	52	3	1	x	3	
2d, e, f	SCC	m	40	3	1	x	3	
3a, b, c	SCC	f	50	3	1	x	2	
3d, e, f	SCC	m	78	4	1	x	2	
4a, b, c	SCC	m	60	3	1	x	2	
4d, e, f	SCC	f	70	3	1	x	3	
5a, b, c	SCC	f	60	3	X	x	2	
5d, e, f	SCC	m	61	3	1	x	2	
6a, b, c	ADC	m	61	3	1	x	3	
6d, e, f	ADC	m	59	2	0	x	3	
7a, b, c	ADC	m	70	2b	0	x	2	
7d, e, f	ADC	f	72	3	1	x	2	
8a, b, c	ADC	m	64	2	0	x	2	
8d, e, f	ADC	f	52	3	1	x	2	
9a, b, c	ADC	m	59	2	0	x	2/3	
9d, e, f	ADC	m	64	3	1	x	3	
10a, b, c	ADC	m	66	3	1	1	1	
10d, e, f	ADC	m	62	3	1	x	2	
11a	Normal mucosa	m	59					same patient as sample 6d, e, f
11b	Normal mucosa	m	59					same patient as sample 9a, b, c
11c	Normal mucosa	m	52					same patient as sample 2a, b, c

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Cholangiocarcinoma

Cat.-No.: 401 2208

Sample Datasheet

Slide Label								
	a	b	c	d	e	f	g	h
1	●	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●	●
3	●	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●	●
5	●	●	●	●	●	●	●	●
6	●	●	●	●	●	●	●	●
7	●	●	●	●	●	●		
8	●	●	●	●	●	●	●	
9	●	●	●	●	●	●	●	●
10		●	●	●	●	●	●	●
11		●	●	●	●	●	●	●
12		●	●	●				

Technical Information: 86 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 2208

Position	Organ	Sex	Age	Stage pT	Stage pN	Stage pM	Remarks
1a	Cholangiocarcinoma	m	75	3	X	X	
1b	Cholangiocarcinoma	m	59	2	1	X	same patient as sample 9h
1c	Cholangiocarcinoma	f	74	1	0		same patient as sample 9g
1d	Cholangiocarcinoma	m	74	1	0	X	same patient as sample 9f
1e	Cholangiocarcinoma	m	81	3	0	X	
1f	Cholangiocarcinoma	m	51	4	1	x	
1g	Cholangiocarcinoma	f	70	2	0	X	same patient as sample 9d
1h	Cholangiocarcinoma	m	65	4			same patient as sample 9c
2a	Cholangiocarcinoma	f	36	4	1	X	same patient as sample 9b
2b	Cholangiocarcinoma	f	35	4	0		same patient as sample 9a
2c	Cholangiocarcinoma	m	72	4	X	X	
2d	Cholangiocarcinoma	m	67	2	X		
2e	Cholangiocarcinoma	f	69				same patient as sample 10d
2f	Cholangiocarcinoma	f	80	2	0	0	
2g	Cholangiocarcinoma	m	71	2			
2h	Cholangiocarcinoma	m	68	3	1	1	
3a	Cholangiocarcinoma	m	62	3	1		same patient as sample 10c
3b	Cholangiocarcinoma	f	64	2a	0	x	
3c	Cholangiocarcinoma	m	63	4	1		
3d	Cholangiocarcinoma	m	55	4	1		
3e	Cholangiocarcinoma	f	66	2	0		
3f	Cholangiocarcinoma	f	54	3	1	1	same patient as sample 8a

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 2208

Position	Organ	Sex	Age	Stage pT	Stage pN	Stage pM	Remarks
3g	Cholangiocarcinoma	f	62	3	0		same patient as sample 12d
3h	Cholangiocarcinoma	f	37	2	0		
4a	Cholangiocarcinoma	f	73	3	1		same patient as sample 8b
4b	Cholangiocarcinoma	m	59	3			same patient as sample 10e
4c	Cholangiocarcinoma	m	66	4	0		same patient as sample 10f
4d	Cholangiocarcinoma	m	61	3	1		same patient as sample 8c
4e	Cholangiocarcinoma	m	68	3	0	X	same patient as sample 10g
4f	Cholangiocarcinoma	m	46	3	0		
4g	Cholangiocarcinoma	f	73	3	X	X	
4h	Cholangiocarcinoma	f	67	3	1	X	same patient as sample 10h und 8d
5a	Cholangiocarcinoma	m	61	4	1		same patient as sample 8e
5b	Cholangiocarcinoma	f	65				
5c	Cholangiocarcinoma	f	63	3			
5d	Cholangiocarcinoma	f	51	4	1		
5e	Cholangiocarcinoma	m	81	3	X		same patient as sample 11b
5f	Cholangiocarcinoma	f	73	2	0		
5g	Cholangiocarcinoma	f	83				same patient as sample 11c
5h	Cholangiocarcinoma	f	44	2	0		same patient as sample 11d
6a	Cholangiocarcinoma	f	60	4	0		same patient as sample 11e
6b	Cholangiocarcinoma	f	76				
6c	Cholangiocarcinoma	m	67	2			same patient as sample 11f

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 2208

Position	Organ	Sex	Age	Stage pT	Stage pN	Stage pM	Remarks
6d	Cholangiocarcinoma	m	56	4	0		same patient as sample 11g
6e	Cholangiocarcinoma	f	64	3	1		same patient as sample 8f
6f	Cholangiocarcinoma	m	70	3	1		
6g	Cholangiocarcinoma	m	50	4	1		same patient as sample 8g
6h	Cholangiocarcinoma	m	52	4	X		
7a	Cholangiocarcinoma	m	66	4	X	X	same patient as sample 11h
7b	Cholangiocarcinoma	m	58	3			
7c	Cholangiocarcinoma	f	56	3			
7d	Cholangiocarcinoma	f	63	3	1		
7e	Cholangiocarcinoma	f	63	3	X		
7f	Cholangiocarcinoma	f	66	3	1	X	
8a	Lymph node metastasis	f	54	3	1	1	
8b	Lymph node metastasis	f	73	3	1		
8c	Lymph node metastasis	m	61	3	1		
8d	Lymph node metastasis	f	67	3	1	X	
8e	Lymph node metastasis	m	61	4	1		
8f	Lymph node metastasis	f	64	3	1		
8g	Lymph node metastasis	m	50	4	1		
9a	Normal liver	m	35				
9b	Normal liver	f	36				
9c	Normal liver	m	65				
9d	Normal liver	f	70				
9e	Normal liver	m	66				
9f	Normal liver	m	74				
9g	Normal liver	f	74				

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
 Cat.-No.: 401 2208

Position	Organ	Sex	Age	Stage pT	Stage pN	Stage pM	Remarks
9h	Normal liver	m	59				
10a							
10b	Normal liver	m	60				same patient as sample 12c
10c	Normal liver	m	62				
10d	Normal liver	f	69				
10e	Normal liver	m	59				
10f	Normal liver	m	66				
10g	Normal liver	m	68				
10h	Normal liver	f	67				
11a							
11b	Normal liver	m	81				
11c	Normal liver	f	83				
11d	Normal liver	f	44				
11e	Normal liver	f	60				
11f	Normal liver	m	67				
11g	Normal liver	m	56				
11h	Normal liver	m	66				
12a							
12b	Bile ducts	m	59				
12c	Liver/gall bladder	m	60				
12d	Gall bladder	f	62				

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Prostate Carcinoma

Cat.-No.: 401 2209

Sample Datasheet

Slide Label								
	a	b	c	d	e	f	g	h
1	●	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●	●
3	●	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●	●
5	●	●	●	●	●	●	●	●
6	●	●	●	●	●	●	●	●
7	●	●	●	●	●	●	●	●
8	●	●	●	●				
9	●	●	●	●	●	●	●	●
10	●	●						
11	●	●	●	●	●	●	●	●
12	●	●						

Technical Information: 80 spots

- Spot diameter: 1.5 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2209

Position	Diagnosis	Sex	Age	Stage pT	Stage pN	Grade	Gleason	Remarks
1a	ADC	m	64	3b	0	2b	4+3	
1b	ADC	m	67	2b	0	3a	3+4	
1c	ADC	m	73	3a	X	X	4+5	
1d	ADC	m	63	3b	0	3a	7	
1e	ADC	m	65	2b	0	2	3+3	
1f	ADC	m	61	3b	X	3a	4+4	
1g	ADC	m	70	3a	0	X	3+4	
1h	ADC	m	72	3a	0	X	4+3	
2a	ADC	m	61	3a	X	2b	3+4	
2b	ADC	m	74	2b	X	2b	4+3	
2c	ADC	m	59	2b	X	2b	2+3	
2d	ADC	m	72	2c	X	X	3+3	
2e	ADC	m	54	2c	X	2b	3+4	
2f	ADC	m	59	2c	0	X	4+3	
2g	ADC	m	58	3a	0	2b	3+4	
2h	ADC	m	67	3a	0	2b	3+4	
3a	ADC	m	57	3a	X	X	3+4	
3b	ADC	m	77	4	0	3a	3+4	
3c	ADC	m	64	2b	0	3a	4+3	
3d	ADC	m	69	3b	0	X	4+3	
3e	ADC	m	50	2b	0	3a	4+3	
3f	ADC	m	53	2b	0	2	3+3	
3g	ADC	m	46	2c	0	X	3+3	
3h	ADC	m	59	3a	0	3	4+5	
4a	ADC	m	70	2b	0	2b	2+3	
4b	ADC	m	65	3a	0	3b	5+4	
4c	ADC	m	67	3a	0	X	3+4	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2209

Position	Diagnosis	Sex	Age	Stage pT	Stage pN	Grade	Gleason	Remarks
4d	ADC	m	68	2b	0	3a	4+4	
4e	ADC	m	69	3a	X	X	4+3	
4f	ADC	m	59	2c	X	X	3+4	
4g	ADC	m	63	2b	0	2	3+4	
4h	ADC	m	46	2c	0	X	3+3	
5a	ADC	m	70	2c	0	X	3+4	
5b	ADC	m	63	3a	0	3a	5+3	
5c	ADC	m	64	3a	0	3a	3+5	
5d	ADC	m	69	3a	X	X	3+4	
5e	ADC	m	60	3a	0	2a	3+3	
5f	ADC	m	57	2b	0	2b	3+2	
5g	ADC	m	50	2a	0	2a	3+3	
5h	ADC	m	68	3a	0	2	3+3	
6a	ADC	m	65	3b	1	3a	3+4	
6b	ADC	m	69	3a	1	3b	5+5	
6c	ADC	m	63	2b	0	2b	3+4	
6d	ADC	m	51	2b	0	2a	2+3	
6e	ADC	m	62	3a	0	2	3+3	
6f	ADC	m	61	3a	0	2b	3+4	
6g	ADC	m	53	3b	1	3a	4+4	
6h	ADC	m	56	2b	0	2a	4+3	
7a	ADC	m	59	2b	0	2b	2+3	
7b	ADC	m	61	2b	0	3a	3+4	
7c	ADC	m	51	3a	0	2b	3+4	
7d	ADC	m	62	3b	1	2b	3+4	
7e	ADC	m	66	3a	0	2a	3+3	
7f	ADC	m	62	2b	0	2a	3+3	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2209

Position	Diagnosis	Sex	Age	Stage pT	Stage pN	Grade	Gleason	Remarks
7g	ADC	m	56	2b	0	2a	3+3	
7h	ADC	m	58	3a	0	2b	3+3	
8a	ADC	m	66	3a	0	3b	5+4	
8b	ADC	m	55	3a	0	3a	3+4	
8c	ADC	m	67	2b	0	2a	2+3	
8d	ADC	m	61	2b	0	3a	3+5	
9a	PIN	m	59					Same patient as sample 2c
9b	PIN	m	58					Same patient as sample 2g
9c	PIN	m	62					
9d	PIN	m	51					
9e	PIN	m	58					Same patient as sample 4f
9f	PIN	m	68					
9g	PIN	m	64					Same patient as sample 5c
9h	PIN	m	56					
10a	PIN	m	61					Same patient as sample 5d
10b	PIN	m	51					Same patient as sample 6d
11a	Normal (benign hyperplasia)	m	70					
11b	Normal (benign hyperplasia)	m	63					
11c	Normal (benign hyperplasia)	m	62					
11d	Normal (benign hyperplasia)	m	81					
11e	Normal (benign hyperplasia)	m	67					

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2209

Position	Diagnosis	Sex	Age	Stage pT	Stage pN	Grade	Gleason	Remarks
11f	Normal (benign hyperplasia)	m	76					
11g	Normal (benign hyperplasia)	m	74					
11h	Normal (benign hyperplasia)	m	69					
12a	Normal (benign hyperplasia)	m	63					
12b	Normal (benign hyperplasia)	m	71					

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Endometrium Carcinoma

Cat.-No.: 401 2210

Sample Datasheet

Slide Label						
	a	b	c	d	e	f
1	●	●	●	●	●	●
2	●	●	●	●	●	●
3	●	●	●	●	●	●
4	●	●	●	●	●	●
5	●	●	●	●	●	●
6	●	●	●	●	●	●
7	●	●	●	●		
8	●	●	●	●	●	●
9	●	●	●	●		
10	●	●	●	●	●	●
11	●	●	●	●		

Technical Information: 60 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2210

Position	Diagnosis	Specification	Material/ Localization	Sex	Age	pT	pN	pM	Grade	Remarks
1a	endometrium ca	clear cell	hysterectomy/ corpus uteri	f	72	x	0	x	3	
1b	endometrium ca in situ	endometrioid	hysterectomy/ corpus uteri	f	51	1a	x	x	2	
1c	endometrium ca	endometrioid	hysterectomy/ corpus uteri	f	69	1b	x	x	2	
1d	endometrium ca	endometrioid	curettage/ corpus uteri	f	53	1b	x	x	2	
1e	endometrium ca	Adeno- squamous	curettage/ corpus uteri	f	57	1b	0	x	2	
1f	endometrium ca	endometrioid	hysterectomy/ corpus uteri	f	76	1c	x	x	2	
2a	endometrium ca	endometrioid partially squamous	hysterectomy/ corpus uteri	f	55	2	x	x	2	
2b	endometrium ca	serous- papillary	uterus/ tube	f	60	3a	1	1	2	
2c	endometrium ca	tubulary	hysterectomy/ corpus uteri	f	82	1w	x	x	1	
2d	endometrium ca	tubulary	hysterectomy/ corpus uteri	f	64	1	x	x	1	
2e	endometrium ca	papillary, partially clear cell	hysterectomy/ corpus uteri	f	76	3	x	x	3	
2f	endometrium ca, early stage	tubulary	hysterectomy/ corpus uteri	f	54	1b	x	x	1	
3a	endometrium ca	tubulo- papillary	hysterectomy/ corpus uteri	f	33	1c	x	x	1	
3b	endometrium ca	tubulary, glandular	curettage/ corpus uteri	f	50	2b	0	x	3	
3c	endometrium ca	tubulo- papillary- serous	curettage/ corpus uteri	f	69	1a	x	x	1	
3d	endometrium ca	tubulo- papillary	hysterectomy/ corpus uteri	f	52	1a	x	x	1	
3e	endometrium ca	endometrioid	hysterectomy/ corpus uteri	f	72	1b	x	x	2	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2210

Position	Diagnosis	Specification	Material/ Localization	Sex	Age	pT	pN	pM	Grade	Remarks
3f	endometrium ca	glandular	hysterectomy/ corpus uteri	f	70	1b	0	x	1	
4a	endometrium ca	tubulary	hysterectomy/ corpus uteri	f	67	1c	0	x	1	
4b	endometrium ca	Adeno- squamous	curettage/ cervix uteri	f	53	1b	x	x	2	
4c	endometrium ca	tubulo- papillary	hysterectomy/ corpus uteri	f	62	1b	x	x	2	
4d	endometrium ca	endometrioid	hysterectomy/ corpus uteri	f	61	1b	x	x	1	
4e	endometrium ca	tubulo- papillary	hysterectomy/ corpus uteri	f	88	1c	x	x	1	
4f	endometrium ca	clear cell	hysterectomy/ corpus uteri	f	82	1b	x	x	3	
5a	endometrium ca	tubulary	hysterectomy/ corpus uteri	f	67	1c	x	x	1	
5b	endometrium ca	tubulo- papillary	hysterectomy/ corpus uteri	f	39	1a	x	x	2	
5c	endometrium ca	tubulo- papillary	hysterectomy/ corpus uteri	f	69	2	1	x	2	
5d	endometrium ca	tubulo- papillary	hysterectomy/ corpus uteri	f	74	1c	x	x	1	
5e	endometrium ca	partially clear cell	hysterectomy/ corpus uteri	f	58	3	1	x	3	
5f	endometrium ca	adeno- cancroid	hysterectomy/ corpus uteri	f	87	1b	x	x	2	
6a	endometrium ca	tubulo- papillary	hysterectomy/ corpus uteri	f	58	1b	x	x	1	
6b	endometrium ca	papillary	hysterectomy/ corpus uteri	f	52	3a	x	x	1	
6c	endometrium ca	tubulo- secretory	hysterectomy/ corpus uteri	f	82	1b	x	x	3	
6d	endometrium ca	tubulo- papillary	curettage/ corpus uteri	f	75	1a	x	x	1	
6e	endometrium ca	tubulo- papillary, serous-	hysterectomy/ corpus uteri	f	76	1b	x	x	2	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 2210

Position	Diagnosis	Specification	Material/ Localization	Sex	Age	pT	pN	pM	Grade	Remarks
		papillary								
6f	endometrium ca	tubulo-papillary	hysterectomy/ corpus uteri	f	62	1c	1	x	2	
7a	endometrium ca	Adeno-squamous	hysterectomy/ corpus uteri	f	67	3a	1	x	2	
7b	endometrium ca	glandular	hysterectomy/ corpus uteri	f	58	1b	x	x	1	
7c	endometrium ca	Adeno-squamous (adeno-carcinoid)	hysterectomy/ corpus uteri	f	57	1b	x	x	2	
7d	endometrium ca	tubulo-papillary	curettage/ corpus uteri	f	60	1	x	x	1	
8a	endometriosis		tube	f	55					
8b	endometriosis		ovary	f	21					
8c	endometriosis		ovary	f	40					
8d	endometriosis	stroma at adjacent to endometrium	adnexa	f	39					
8e	endometriosis		endocervix	f	44					
8f	endometriosis	stroma at adjacent to endometrium	ovary	f	29					
9a	endometriosis		uterus	f	52					
9b	endometriosis		ovary	f	51					
9c	endometriosis		tube	f	39					
9d	endometriosis		adnexa	f	41					
10a	normal myometrium		hysterectomy/ corpus uteri	f	82					same patient as sample 9
10b	normal endometrium		hysterectomy/ corpus uteri	f	54					same patient as sample 12
10c	normal endometrium		hysterectomy/ corpus uteri	f	68					
10d	normal endometrium		hysterectomy/ corpus uteri	f	48					

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2210

Position	Diagnosis	Specification	Material/ Localization	Sex	Age	pT	pN	pM	Grade	Remarks
10e	normal endometrium		hysterectomy/ corpus uteri	f	45					
10f	normal endometrium		hysterectomy/ corpus uteri	f	52					same patient as sample 16
11a	normal endometrium		hysterectomy/ corpus uteri	f	44					same patient as sample 48
11b	normal endometrium		hysterectomy/ corpus uteri	f	50					
11c	normal endometrium		hysterectomy/ corpus uteri	f	39					same patient as sample 26
11d	normal endometrium		hysterectomy/ corpus uteri	f	58					

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Colon UICC

Cat.-No.: 401 2211

Sample Datasheet

Slide Label		a	b	c	d	e	f	g	h	i	j	k	
	1	●	●	●	●	●	●	●	●	●	●	●	
	2	●	●	●	●	●	●	●	●	●	●	●	
	3	●	●	●	●	●	●	●	●	●	●	●	
	4	●	●	●	●	●	●	●	●	●	●	●	
	5	●	●	●	●	●	●	●	●	●	●	●	
	6	●	●	●	●	●	●	●	●	●	●	●	
	7	●	●	●	●	●	●	●	●	●	●	●	●

Technical Information: 71 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2211

Position	Diagnosis	UICC Stage	Sex	Age	Remarks
1a	ADC	I	m	73	
1b	ADC	I	f	61	
1c	ADC	I	f	67	
1d	ADC	I	m	75	
1e	ADC	I	f	60	
1f	ADC	I	f	79	
1g	ADC	I	m	61	
1h	ADC	I	m	67	
1i	ADC	I	m	62	
1j	ADC	I	f	84	
2a	ADC	II	f	73	
2b	ADC	II	f	75	
2c	ADC	II	f	77	
2d	ADC	II	f	96	
2e	ADC	II	m	68	
2f	ADC	II	f	60	
2g	ADC	II	f	75	
2h	ADC	II	f	77	
2i	ADC	II	f	75	
2j	ADC	II	m	78	
3a	ADC	III	f	83	
3b	ADC	III	m	55	
3c	ADC	III	m	76	
3d	ADC	III	f	84	
3e	ADC	III	m	80	
3f	ADC	III	m	75	
3g	ADC	III	m	63	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2211

Position	Diagnosis	UICC Stage	Sex	Age	Remarks
3h	ADC	III	f	65	
3i	ADC	III	m	70	
3j	ADC	III	f	72	
4a	ADC	IV	f	74	
4b	ADC	IV	m	73	
4c	ADC	IV	m	61	
4d	ADC	IV	m	67	
4e	ADC	IV	f	36	
4f	ADC	IV	f	66	
4g	ADC	IV	f	73	
4h	ADC	IV	f	41	
4i	ADC	IV	m	73	
4j	ADC	IV	f	57	
5a	Adenoma		f	67	
5b	Adenoma		m	70	
5c	Adenoma		f	79	
5d	normal		m	28	
5e	Adenoma		f	68	
5f	Adenoma		m	73	Same patient as 4i
5g	Adenoma		m	58	
5h	Adenoma		m	67	
5i	Adenoma		f	66	
5j	Adenoma		f	64	
6a	normal (colon mucosa)		m	59	
6b	normal		m	89	
6c	normal (colon mucosa)		m	65	
6d	normal (colon mucosa)		m	61	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2211

Position	Diagnosis	UICC Stage	Sex	Age	Remarks
6e	normal (colon mucosa)		f	79	
6f	normal (colon mucosa)		f	87	
6g	normal (colon mucosa)		m	68	
6h	normal (colon mucosa)		f	75	
6i	normal (colon mucosa)		f	43	
6j	normal (colon mucosa)		m	60	
7°	ADC, liver metastasis		f	74	Same Patient as 4a
7b	ADC, liver metastasis		m	73	Same Patient as 4b
7c	ADC, liver metastasis		m	61	Same Patient as 4c
7d	ADC, liver metastasis		m	67	Same Patient as 4d
7e	ADC, liver metastasis		f	36	Same Patient as 4e
7f	ADC, liver metastasis		m	86	
7g	ADC, liver metastasis		m	72	
7h	ADC, liver metastasis		f	58	
7i	ADC, liver metastasis		m	60	
7j	ADC, liver metastasis		m	68	
7k	ADC, liver metastasis		f	44	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Skeletal Carcinoma

Cat.-No.: 401 2212 Sample Datasheet

Slide Label						
	a	b	c	d	e	f
1	●	●	●	●	●	●
2	●	●	●	●	●	●
3	●	●	●	●	●	●
4	●	●	●	●	●	●
5	●	●	●	●		
6	●	●	●	●	●	●
7	●	●	●	●	●	●
8	●	●	●	●	●	●
9	●	●	●	●		
10	●	●	●	●		

Technical Information: 54 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 2212

Position	Diagnosis	Localization	Tissue	Sex	Age
1a	Fibrosarcoma	thorax	adult	m	51
1b	Fibrosarcoma	thorax	adult	m	51
1c	Fibrosarcoma	skin	adult	m	65
1d	Fibrosarcoma	skin	adult	m	65
1e	Fibrosarcoma	skin	adult	m	65
1f	Fibrosarcoma	skin	adult	m	65
2a	Osteosarcoma	pelvis	adult	f	47
2b	Osteosarcoma	pelvis	adult	f	47
2c	Osteosarcoma	maxilla	adult	f	28
2d	Osteosarcoma	maxilla	adult	f	28
2e	Chondrosarcoma	akromion	adult	m	54
2f	Chondrosarcoma	akromion	adult	m	54
3a	Chondrosarcoma	maxilla	adult	m	25
3b	Chondrosarcoma	maxilla	adult	m	25
3c	Chondrosarcoma	pelvis	adult	m	44
3d	Chondrosarcoma	pelvis	adult	m	44
3e	solitary bone cyst	tibia	adolescent	f	14
3f	solitary bone cyst	tibia	adolescent	f	14
4a	aneurysmatic bone cyst	tibia	adult	m	38
4b	aneurysmatic bone cyst	tibia	adult	m	38
4c	aneurysmatic bone cyst	tibia	adult	m	38
4d	aneurysmatic bone cyst	tibia	adult	m	38
4e	Bone tissue - border area of aneurysmatic bone cyst	pelvis	adolescent	f	13
4f	Bone tissue - border area of aneurysmatic bone cyst	processus coracoideus	adult	f	38
5a	fibr. Dysplasia	maxilla	adult	m	60
5b	fibr. Dysplasia	maxilla	adult	m	60

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2212

Position	Diagnosis	Localization	Tissue	Sex	Age
5c	Enchondroma	humerus	adult	f	48
5d	Enchondroma	humerus	adult	f	48
6a	perisotal chondroma	os metacarpale I	adult	f	65
6b	perisotal chondroma	os metacarpale I	adult	f	65
6c	Chondroma	os metacarpale I	adult	f	81
6d	Chondroma	os metacarpale I	adult	f	81
6e	Chondroma	femur	adult	f	54
6f	Chondroma	femur	adult	f	54
7a	Chondroma	os metacarpale I	adult	f	81
7b	Chondroma	os metacarpale I	adult	f	81
7c	Osteoma	ethmoid	adult	m	79
7d	Osteoma	ethmoid	adult	m	79
7e	Osteoma	mandible	adolescent	f	13
7f	Osteoma	mandible	adolescent	f	13
8a	Osteoma	ethmoid	adult	f	19
8b	Osteoma	ethmoid	adult	f	19
8c	Osteoma	maxillary sinus	adult	m	40
8d	Osteoma	maxillary sinus	adult	m	40
8e	Osteoma	anconoid	adult	m	53
8f	Osteoma	anconoid	adult	m	53
9a	Osteochondroma	os metacarpale V	adult	m	35
9b	Osteochondroma	os metacarpale V	adult	m	35
9c	Osteochondroma	tibia	adult	f	22
9d	Osteochondroma	tibia	adult	f	22
10a	Osteochondroma	shoulder	adult	f	22
10b	Osteochondroma	shoulder	adult	f	22
10c	Osteochondroma	fibula	adolescent	f	17

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2212

Position	Diagnosis	Localization	Tissue	Sex	Age
10d	Osteochondroma	fibula	adolescent	f	17

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Ovarian Carcinoma

Cat.-No.: 401 2213

Sample Datasheet

Slide Label								
	a	b	c	d	e	f	g	h
1	●	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●	●
3	●	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●	●
5	●	●	●			●	●	●
6	●	●	●	●	●	●	●	
7	●	●	●	●	●	●	●	●
8	●	●	●	●	●	●	●	●
9	●	●	●	●		●	●	●
10	●	●	●	●	●	●	●	
11	●	●	●	●	●			
12	●	●	●	●	●			

Technical Information: 85 spots

- Spot diameter: 1.5 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 2213

same patient as position	Diagnosis	subtype	Organ	Sex	Age	pT	pN	pM	Grade	Remarks
1a	ADC	endometrioid	Ovary	f	69	3c	1	X	3	
1b	ADC	endometrioid	Ovary	f	78	3c	X	X	1	
1c	ADC	endometrioid	Ovary	f	65	1c	0	X	3	
1d	ADC	endometrioid	Ovary	f	46	3c	1	X	2	
1e	ADC	endometrioid	Ovary	f	61	3c	X	X	3	
1f	ADC	endometrioid	Ovary	f	67	2b	X	X	3	
1g	ADC	endometrioid	Ovary	f	54	2b	0	X	3	
1h	ADC	endometrioid	Ovary	f	56	1a	X	X	3	
2a	ADC	endometrioid	Ovary	f	64	1a	1	X	3	
2b	ADC	endometrioid	Ovary	f	62	2	0	X	3	partial clear cell
2c	ADC	mucinous	Ovary	f	86	3a	X	X	X	
2d	ADC	mucinous	Ovary	f	56	1c	0	X	2	
2e	ADC	mucinous	Ovary	f	68	1c	X	X	1	
2f	ADC	mucinous	Ovary	f	50	1a	X	X	1	
2g	ADC	mucinous	Ovary	f	33	1a	X	X	2	
2h	ADC	clear cell	Ovary	f	81	2b	0	X	X	
3a	ADC	clear cell	Ovary	f	65	1a	0	X	2	
3b	ADC	clear cell	Ovary	f	46	3c	0	X	3	
3c	ADC	clear cell	Ovary	f	79	2a	X	X	3	
3d	ADC	clear cell	Ovary	f	55	3c	1	X	2	
3e	ADC	serous	Ovary	f	79	3c	X	X	2	High Grade
3f	ADC	serous	Ovary	f	56	1c	X	X	3	High Grade
3g	ADC	serous	Ovary	f	76	3c	X	X	3	High Grade
3h	ADC	serous	Ovary	f	50	3b	0	X	3	High Grade
4a	ADC	serous	Ovary	f	53	3c	0	X	3	High Grade
4b	ADC	serous	Ovary	f	67	3c	X	X	2	High Grade

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 2213

same patient as position	Diagnosis	subtype	Organ	Sex	Age	pT	pN	pM	Grade	Remarks
4c	ADC	serous	Ovary	f	54	2b	0	X	3	High Grade
4d	ADC	serous	Ovary	f	49	3c	1	X	2	High Grade
4e	ADC	serous	Ovary	f	48	3c	X	X	3	High Grade
4f	ADC	serous	Ovary	f	39	X	X	X	3	High Grade
4g	ADC	serous	Ovary	f	75	3c	X	X	3	High Grade
4h	ADC	serous	Ovary	f	75	3b	0	X	2	High Grade
5a	ADC	serous	Ovary	f	74	3c	0	X	3	High Grade
5b	ADC	serous	Ovary	f	66	3b	1	X	3	High Grade
5c	ADC	serous	Ovary	f	59	3c	1	X	2	High Grade
5d										
5e										
5f	ADC	serous	Ovary	f	69	3b	1	X	1	Low Grade
5g	ADC	serous	Ovary	f	27	3c	1	X	1	Low Grade
5h	ADC	serous	Ovary	f	35	2c	1	X	1	Low Grade
6a	ADC	serous	Ovary	f	65	3c	1	X	1	Low Grade
6b	ADC	serous	Ovary	f	58	3c	X	X	1	Low Grade
6c	ADC	serous	Ovary	f	34	3c	1	X	1	Low Grade
6d	ADC	serous	Ovary	f	18	3a	1	X	1	Low Grade
6e	ADC	serous	Ovary	f	32	3c	1	X	1	Low Grade
6f	ADC	serous	Ovary	f	55	1c	X	X	1	Low Grade
6g	ADC	serous	Ovary	f	37	3c	1	X	1	Low Grade
7a	Normal		Tube	f	69					same patient as sample 1a
7b	Normal		Tube	f	78					same patient as sample 1b
7c	Normal		Tube	f	65					same patient as sample 1c

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2213

same patient as position	Diagnosis	subtype	Organ	Sex	Age	pT	pN	pM	Grade	Remarks
7d	Normal		Tube	f	86					same patient as sample 2c
7e	Normal		Tube	f	56					same patient as sample 2d
7f	Normal		Tube	f	68					same patient as sample 2e, 9f, 11d
7g	Normal		Tube	f	50					same patient as sample 2f, 9g
7h	Normal		Tube	f	33					same patient as sample 2g, 9h
8a	Normal		Tube	f	79					same patient as sample 3e
8b	Normal		Tube	f	56					same patient as sample 3f, 12a
8c	Normal		Tube	f	50					same patient as sample 3h, 10a
8d	Normal		Tube	f	53					same patient as sample 4a
8e	Normal		Tube	f	54					same patient as sample 4c, 10b
8f	Normal		Tube	f	48					same patient as sample 4e, 10c
8g	Normal		Tube	f	39					same patient as sample 4f, 11b
8h	Normal		Tube	f	75					same patient as sample 4g, 10d
9a	Normal		Tube	f	75					same patient as sample 4h, 11c
9b	Normal		Tube	f	74					same patient as sample 5a
9c	Normal		Tube	f	66					same patient as sample 5b, 10e
9d	Normal		Tube	f	59					same patient as sample 5c

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 2213

same patient as position	Diagnosis	subtype	Organ	Sex	Age	pT	pN	pM	Grade	Remarks
9e										
9f	Normal		Fimbria	f	68					same patient as sample 2e, 7f, 11d
9g	Normal		Fimbria	f	50					same patient as sample 2f, 7g
9h	Normal		Fimbria	f	33					same patient as sample 2g, 7h
10a	Normal		Fimbria	f	50					same patient as sample 3h, 8c
10b	Normal		Fimbria	f	54					same patient as sample 4c, 8e
10c	Normal		Fimbria	f	48					same patient as sample 4e, 8f
10d	Normal		Fimbria	f	75					same patient as sample 4g, 8h
10e	Normal		Fimbria	f	66					same patient as sample 5b, 9c
10f	Normal		Fimbria	f	34					same patient as sample 5d, 9e
10g	Normal		Fimbria	f	55					same patient as sample 6f, 12d
11a	Normal	Inclusion cyst	Ovary	f	78					same patient as sample 5e, 11f
11b	Normal	Inclusion cyst	Ovary	f	39					same patient as sample 4f, 8g, 11g
11c	Normal	Inclusion cyst	Ovary	f	75					same patient as sample 1a, 9a
11d	Normal	Inclusion cyst	Ovary	f	68					same patient as sample 2e, 7f, 9f
11e	Normal	Inclusion cyst	Ovary	f	54					same patient as sample 1g
12a	Normal	Inclusion cyst	Ovary	f	56					same patient as sample 3f, 8b

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
 Cat.-No.: 401 2213

same patient as position	Diagnosis	subtype	Organ	Sex	Age	pT	pN	pM	Grade	Remarks
12b	Normal	Inclusion cyst	Ovary	f	76					same patient as sample 3g
12c	Normal	Inclusion cyst	Ovary	f	32					same patient as sample 6e
12d	Normal	Inclusion cyst	Ovary	f	55					same patient as sample 6f, 10g
12e	Normal	Inclusion cyst	Ovary	f	37					same patient as sample 6g, 10h

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray

Neuroendocrine differentiated Lung Tumor

Cat.-No.: 401 2214 Sample datasheet

Slide Label							
	a	b	c	d	e	f	
1	●	●	●	●	●	●	SCLC
2	●	●	●	●	●	●	
3	●	●	●	●	●	●	
4	●	●	●	●	●	●	
5	●	●					Lung normal
6	●	●	●	●	●	●	
7	●	●	●	●	●	●	
8	●	●	●	●			NEC
9	●	●	●	●	●	●	
10	●	●	●	●	●		Carcinoid typical
11	●	●					Carcinoid atypical

Technical Information: 55 Spots (55 Spots requested)

- Spot diameter: 1.5 mm
- Fixation in 4% (w/v) neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

Position	Tissue Type	Organ	Diagnosis	Specification	Sex	Age	pT	pN	pM	Grade	Remarks
1a	Tumor	Lung	SCLC	n.av	m	67	1	1	n.av	3	
1b	Tumor	Lung	SCLC	n.av	m	70	1	2	n.av	3	
1c	Tumor	Lung	SCLC	n.av	m	61	2	1	n.av	3	
1d	Tumor	Lung	SCLC	n.av	f	59	1	1	1	3	
1e	Tumor	Lung	SCLC	n.av	m	71	2	n.av	n.av	2	
1f	Tumor	Lung	SCLC	n.av	m	52	2	1	n.av	3	
2a	Tumor	Lung	SCLC	n.av	m	53	n.av	n.av	n.av	n.av	
2b	Tumor	Lung	SCLC	n.av	m	73	1	n.av	n.av	n.av	
2c	Tumor	Lung	SCLC	n.av	f	61	2	0	n.av	3	
2d	Tumor	Lung	SCLC	n.av	m	66	2	0	n.av	3	
2e	Tumor	Lung	SCLC	n.av	f	47	2	2	n.av	n.av	
2f	Tumor	Lung	SCLC	n.av	m	81	n.av	n.av	n.av	n.av	
3a	Tumor	Lung	SCLC	n.av	m	63	1	1	n.av	n.av	
3b	Tumor	Lung	SCLC	n.av	m	67	3	2	n.av	n.av	
3c	Tumor	Lung	SCLC	n.av	f	67	2	2	n.av	3	
3d	Tumor	Lung	SCLC	n.av	m	61	2	1	n.av	n.av	
3e	Tumor	Lung	SCLC	n.av	f	55	2	1	n.av	3	
3f	Tumor	Lung	SCLC	n.av	f	46	3	2	n.av	n.av	
4a	Tumor	Lung	SCLC	n.av	m	65	1	2	n.av	3	
4b	Tumor	Lung	SCLC	n.av	m	61	4	n.av	n.av	3	
4c	Tumor	Lung	SCLC	n.av	m	58	2	0	n.av	n.av	
4d	Tumor	Lung	SCLC	n.av	m	59	1b	0	n.av	n.av	
4e	Tumor	Lung	SCLC	n.av	f	59	2	1	n.av	3	
4f	Tumor	Lung	SCLC	n.av	m	49	n.av	n.av	n.av	n.av	
5a	Tumor	Lung	SCLC	n.av	f	24	n.av	n.av	n.av	n.av	
5b	Tumor	Lung	SCLC	n.av	f	49	1	0	n.av	3	
6a	Normal	Lung	Lung normal	n.av	f	64	n.av	n.av	n.av	n.av	
6b	Normal	Lung	Lung normal	n.av	m	41	n.av	n.av	n.av	n.av	
6c	Normal	Lung	Lung normal	n.av	m	61	n.av	n.av	n.av	n.av	
6d	Normal	Lung	Lung normal	n.av	m	67	n.av	n.av	n.av	n.av	
6e	Normal	Lung	Lung normal	n.av	m	47	n.av	n.av	n.av	n.av	
6f	Normal	Lung	Lung normal	n.av	m	73	n.av	n.av	n.av	n.av	
7a	Normal	Lung	Lung normal	n.av	m	66	n.av	n.av	n.av	n.av	
7b	Normal	Lung	Lung normal	n.av	m	41	n.av	n.av	n.av	n.av	
7c	Normal	Lung	Lung normal	n.av	f	46	n.av	n.av	n.av	n.av	
7d	Normal	Lung	Lung normal	n.av	m	60	n.av	n.av	n.av	n.av	
7e	Normal	Lung	Lung normal	n.av	f	50	n.av	n.av	n.av	n.av	
7f	Normal	Lung	Lung normal	n.av	f	72	n.av	n.av	n.av	n.av	
8a	Normal	Lung	Lung normal	n.av	f	60	n.av	n.av	n.av	n.av	
8b	Normal	Lung	Lung normal	n.av	m	22	n.av	n.av	n.av	n.av	
8c	Normal	Lung	Lung normal	n.av	m	53	n.av	n.av	n.av	n.av	
8d	Normal	Lung	Lung normal	n.av	f	54	n.av	n.av	n.av	n.av	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Position	Tissue Type	Organ	Diagnosis	Specification	Sex	Age	pT	pN	pM	Grade	Remarks
9a	Tumor	Lung	NEC	large cell	m	71	2	n.av	n.av	3	
9b	Tumor	Lung	NEC	large cell	m	60	2	0	n.av	3	
9c	Tumor	Lung	NEC	large cell	f	57	n.av	n.av	n.av	3	
9d	Tumor	Lung	NEC	large cell	f	50	n.av	n.av	n.av	3	
9e	Tumor	Lung	NEC	small cell	m	64	n.av	n.av	n.av	3	
9f	Tumor	Lung	NEC	large cell	m	75	n.av	n.av	n.av	3	Few tumor cells (10%)
10a	Tumor	Lung	NET	typical	f	48	n.av	n.av	n.av	1	
10b	Tumor	Lung	NET	typical	f	67	n.av	n.av	n.av	1	
10c	Tumor	Lung	NET	typical	f	53	n.av	n.av	n.av	1	
10d	Tumor	Lung	NET	typical	f	88	n.av	n.av	n.av	1	
10e	Tumor	Lung	NET	typical	m	77	n.av	n.av	n.av	1	
11a	Tumor	Lung	NET	atypical	m	45	2	0	n.av	2	
11b	Tumor	Lung	NET	atypical	f	69	n.av	n.av	n.av	2	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray

Gastric Carcinoma
Cat.-No.: 401 2215

Slide Label								
	a	b	c	d	e	f	g	h
1	●	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●	●
3	●	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●	●
5	●	●	●	●	●	●	●	●
6	●	●	●	●	●	●	●	●
7	●	●	●	●	●	●	●	●
8	●	●	●	●	●	●	●	●
9	●	●	●	●	●	●	●	●
10	●	●	●	●	●	●	●	●
11	●	●						
12	●	●	●	●	●	●	●	●
13	●	●	●	●				
14	●	●	●	●	●	●	●	●
15	●	●	●	●				

Signet-ring cell carcinoma

Adenocarcinoma intestinal

Signet-ring cell carcinoma

Adenocarcinoma intestinal

Technical Information: 106 Spots (100 Spots requested)

- Spot diameter: 1.5 mm
- Fixation in 4% (w/v) neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Position	add. for	Organ	Diagnosis	Specification		Gender	Age	pT	pN	pM	Grade	Remarks
1a		Magen	ADC	central	signet-ring cell	m	63	3	0	n.av	3	
1b	1a			peripher			63	3	0	n.av	3	
1c		Magen	ADC	central	signet-ring cell	m	40	3	3a	n.av	3	
1d	1c			peripher			40	3	3a	n.av	3	
1e		Magen	ADC	central	signet-ring cell	m	60	4	3a	n.av	3	
1f	1e			peripher			60	4	3a	n.av	3	
1g		Magen	ADC	central	signet-ring cell	f	26	3	3	n.av	n.av	new case comp. to 266P
1h	1g			peripher			26	3	3	n.av	n.av	
2a		Magen	ADC	central	signet-ring cell	f	56	3	3	n.av	3	
2b	2a			peripher			56	3	3	n.av	3	
2c		Magen	ADC	central	signet-ring cell	m	70	3	3	n.av	3	
2d	2c			peripher			70	3	3	n.av	3	
2e		Magen	ADC	central	signet-ring cell	f	63	2, pT3	n.av	n.av	2	
2f	2e			peripher			63	2, pT3	n.av	n.av	2	
2g		Magen	ADC	central	signet-ring cell	m	53	3	3	n.av	3	
2h	2g			peripher			53	3	3	n.av	3	
3a		Magen	ADC	central	signet-ring cell	f	67	2b	0	n.av	3	
3b	3a			peripher			67	2b	0	n.av	3	
3c		Magen	ADC	central	signet-ring cell	f	80	3	3	n.av	3	
3d	3c			peripher			80	3	3	n.av	3	
3e		Magen	ADC	central	signet-ring cell	m	68	3	2	n.av	3	
3f	3e			peripher			68	3	2	n.av	3	
3g		Magen	ADC	central	signet-ring cell	m	35	3	n.av	n.av	2	
3h	3g			peripher			35	3	n.av	n.av	2	
4a		Magen	ADC	central	signet-ring cell	m	82	2b	2	n.av	3	
4b	4a			peripher			82	2b	2	n.av	3	
4c		Magen	ADC	central	signet-ring cell	f	62	4	1	n.av	3	
4d	4c			peripher			62	4	1	n.av	3	
4e		Magen	ADC	central	signet-ring cell	m	36	3	3	n.av	3	
4f	4e			peripher			36	3	3	n.av	3	
4g		Magen	ADC	central	signet-ring cell	f	75	4a	1	n.av	3	
4h	4g			peripher			75	4a	1	n.av	3	
5a		Magen	ADC	central	signet-ring cell	m	38	4	n.av	X	n.av	
5b	5a			peripher			38	4	n.av	X	n.av	
5c		Magen	ADC	central	signet-ring cell	f	56	3	n.av	n.av	n.av	
5d	5c			peripher			56	3	n.av	n.av	n.av	
5e		Magen	ADC	central	signet-ring cell	m	64	4b	3b	n.av	3	
5f	5e			peripher			64	4b	3b	n.av	3	
5g		Magen	ADC	central	signet-ring cell	m	61	3	2	n.av	3	
5h	5g			peripher			61	3	2	n.av	3	
6a		Magen	ADC	central	intestinal	f	48	4b	3b	1	3	
6b	6a			peripher			48	4b	3b	1	3	
6c		Magen	ADC	central	intestinal	f	83	3	0	n.av	2	
6d	6c			peripher			83	3	0	n.av	2	
6e		Magen	ADC	central	intestinal	f	66	3	3	n.av	3	
6f	6e			peripher			66	3	3	n.av	3	
6g		Magen	ADC	central	intestinal	m	57	2b	1	n.av	2	
6h	6g			peripher			57	2b	1	n.av	2	
7a		Magen	ADC	central	intestinal	m	61	2b	0	n.av	2	
7b	7a			peripher			61	2b	0	n.av	2	
7c		Magen	ADC	central	intestinal	m	52	3	3	n.av	3	
7d	7c			peripher			52	3	3	n.av	3	
7e		Magen	ADC	central	intestinal	m	62	2b	1	X	3	
7f	7e			peripher			62	2b	1	X	3	
7g		Magen	ADC	central	intestinal	m	84	3	1	n.av	3	
7h	7g			peripher			84	3	1	n.av	3	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Position	add. for	Organ	Diagnosis	Specification		Gender	Age	pT	pN	pM	Grade	Remarks
8a		Magen	ADC	central	intestinal	f	81	4	1	n.av	2	
8b	8a			peripher			81	4	1	n.av	2	
8c		Magen	ADC	central	intestinal	m	53	3	1	n.av	3	
8d	8c			peripher			53	3	1	n.av	3	
8e		Magen	ADC	central	intestinal	f	92	2b	1	n.av	3	
8f	8e			peripher			92	2b	1	n.av	3	
8g		Magen	ADC	central	intestinal	f	54	3	0	n.av	2	
8h	8g			peripher			54	3	0	n.av	2	
9a		Magen	ADC	central	intestinal	m	79	3	3	n.av	2	
9b	9a			peripher			79	3	3	n.av	2	
9c		Magen	ADC	central	intestinal	m	62	3	0	n.av	2	
9d	9c			peripher			62	3	0	n.av	2	
9e		Magen	ADC	central	intestinal	m	84	3	1	n.av	3	
9f	9e			peripher			84	3	1	n.av	3	
9g		Magen	ADC	central	intestinal	m	98	3	3	n.av	1	
9h	9g			peripher			98	3	3	n.av	1	
10a		Magen	ADC	central	intestinal	f	82	3	3b	n.av	2	
10b	10a			peripher			82	3	3b	n.av	2	
10c		Magen	ADC	central	intestinal	m	85	4a	2	n.av	3	
10d	10c			peripher			85	4a	2	n.av	3	
10e		Magen	ADC	central	intestinal	f	72	3	2	n.av	3	
10f	10e			peripher			72	3	2	n.av	3	
10g		Magen	ADC	central	intestinal	m	51	3	2	n.av	3	
10h	10g			peripher			51	3	2	n.av	3	
11a		Magen	ADC	central	intestinal	m	85	1	1	n.av	2	
11b	11a			peripher			85	1	1	n.av	2	
12a		Magen	ADC	central	signet-ring cell	m	63	2b	3	X	3	new case comp. to 266P
12b	12a			peripher			63	2b	3	X	3	
12c		Magen	ADC	central	signet-ring cell	m	60	3	1	n.av	3	new case comp. to 266P
12d	12c			peripher			60	3	1	n.av	3	
12e		Magen	ADC	central	signet-ring cell	m	74	2b	n.av	X	n.av	new case comp. to 266P
12f	12e			peripher			74	2b	n.av	X	n.av	
12g		Magen	ADC	central	signet-ring cell	m	61	4	2	n.av	3	new case comp. to 266P
12h	12g			peripher			61	4	2	n.av	3	
13a		Magen	ADC	central	signet-ring cell	m	57	2b	0	n.av	3	new case comp. to 266P
13b	13a			peripher			57	2b	0	n.av	3	
13c		Magen	ADC	central	signet-ring cell	m	68	3	2	1	3	new case comp. to 266P
13d	13c			peripher			68	3	2	1	3	
14a		Magen	ADC	central	intestinal	m	78	3	0	n.av	3	new case comp. to 266P
14b	14a			peripher			78	3	0	n.av	3	
14c		Magen	ADC	central	intestinal	f	81	4	1	n.av	2	new case comp. to 266P
14d	14c			peripher			81	4	1	n.av	2	
14e		Magen	ADC	central	intestinal	m	64	3	n.av	n.av	3	new case comp. to 266P
14f	14e			peripher			64	3	n.av	n.av	3	
14g		Magen	ADC	central	intestinal	m	54	3	0	n.av	3	new case comp. to 266P
14h	14g			peripher			54	3	0	n.av	3	
15a		Magen	ADC	central	intestinal	m	77	2b	0	n.av	2	new case comp. to 266P
15b	15a			peripher			77	2b	0	n.av	2	
15c		Magen	ADC	central	intestinal	f	65	n.av	n.av	n.av	2	new case comp. to 266P
15d	15c			peripher			65	n.av	n.av	n.av	2	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray

Hepatocellular Carcinoma

Cat.-No.: 401 2216

Slide Label						
	a	b	c	d	e	f
1	●	●	●	●	●	●
2	●	●	●	●	●	●
3	●	●	●	●	●	●
4	●	●	●	●	●	●
5	●	●	●	●	●	
6	●	●	●	●	●	
7	●	●	●	●	●	
8	●	●	●	●	●	
9	●	●	●	●	●	●
10	●	●	●	●		
11	●	●	●	●	●	●
12	●	●	●	●		

Technical Information: 64 Spots

- Spot diameter: 1.5 mm
- Fixation in 4% (w/v) neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Position	Tissue Type	Organ	Diagnosis	Specification	Stage	Gender	Age	pT	pN	pM	Grade	Remarks
1a	normal	liver	NAT	normal adjacent tumor	-	f	60	n.ap.	n.ap.	n.ap.	n.ap.	
1b	normal	liver	NAT	normal adjacent tumor	-	m	73	n.ap.	n.ap.	n.ap.	n.ap.	
1c	normal	liver	NAT	normal adjacent tumor	-	m	91	n.ap.	n.ap.	n.ap.	n.ap.	
1d	normal	liver	NAT	normal adjacent tumor	-	m	71	n.ap.	n.ap.	n.ap.	n.ap.	
1e	normal	liver	NAT	normal adjacent tumor	-	m	76	n.ap.	n.ap.	n.ap.	n.ap.	
1f	normal	liver	NAT	normal adjacent tumor	-	f	49	n.ap.	n.ap.	n.ap.	n.ap.	
2a	tumor	liver	HCC		I	f	60	1	n.av	n.av	2	matched spot Pos.1a
2b	tumor	liver	HCC		I	m	73	1	n.av	n.av	2	matched spot Pos.1b
2c	tumor	liver	HCC		I	m	91	1	n.av	n.av	2	matched spot Pos.1c
2d	tumor	liver	HCC		I	m	71	1	0	n.av	3	matched spot Pos.1d
2e	tumor	liver	HCC		II	m	76	2	0	n.av	3	matched spot Pos.1e
2f	tumor	liver	HCC		II	f	49	2	0	n.av	2	matched spot Pos.1f
3a	normal	liver	NAT	normal adjacent tumor	-	m	68	n.ap.	n.ap.	n.ap.	n.ap.	
3b	normal	liver	NAT	normal adjacent tumor	-	f	47	n.ap.	n.ap.	n.ap.	n.ap.	
3c	normal	liver	NAT	normal adjacent tumor	-	f	55	n.ap.	n.ap.	n.ap.	n.ap.	
3d	normal	liver	NAT	normal adjacent tumor	-	m	49	n.ap.	n.ap.	n.ap.	n.ap.	
3e	normal	liver	NAT	normal adjacent tumor	-	m	75	n.ap.	n.ap.	n.ap.	n.ap.	
3f	normal	liver	NAT	normal adjacent tumor	-	f	76	n.ap.	n.ap.	n.ap.	n.ap.	
4a	tumor	liver	HCC		II	m	68	2	0	n.av	2	matched spot Pos.3a
4b	tumor	liver	HCC		III	m	49	3	0	X	2	matched spot Pos.3b
4c	tumor	liver	HCC		III / IV	f	47	3	n.av	n.av	3	matched spot Pos.3c
4d	tumor	liver	HCC		III / IV	f	55	3	X	X	3	matched spot Pos.3d
4e	tumor	liver	HCC		IV	m	75	3	1	n.av	3	matched spot Pos.3e
4f	tumor	liver	HCC		IV	f	76	2	1	n.av	3	matched spot Pos.3f
5a	tumor	liver	HCC	angioinvasive	II	m	33	2	0	n.av	2	
5b	tumor	liver	HCC	angioinvasive	II	m	57	2	0	n.av	2	
5c	tumor	liver	HCC	angioinvasive	II	f	60	2	0	n.av	2	
5d	tumor	liver	HCC	angioinvasive	III	m	78	3	0	n.av	2	
5e	tumor	liver	HCC	angioinvasive	III	m	63	3	0	n.av	2	
6a	tumor	liver	HCC	angioinvasive	III	m	69	3	0	n.av	3	
6b	tumor	liver	HCC	angioinvasive	III / IV	m	82	3	X	X	2	
6c	tumor	liver	HCC	angioinvasive	III / IV	m	60	3	n.av	n.av	3	
6d	tumor	liver	HCC	angioinvasive	III / IV	m	55	3	n.av	n.av	3	
6e	tumor	liver	HCC	angioinvasive	III / IV	m	53	3	n.av	n.av	3	
7a	tumor	liver	HCC	angioinvasive	III / IV	m	74	3	n.av	n.av	2	
7b	tumor	liver	HCC	angioinvasive	III / IV	m	74	3	n.av	n.av	3	
7c	tumor	liver	HCC	angioinvasive	III / IV	m	62	3	n.av	n.av	3	
7d	tumor	liver	HCC	angioinvasive	III / IV	m	74	3	n.av	n.av	2	
7e	tumor	liver	HCC	angioinvasive	III / IV	f	47	3	n.av	n.av	2	
8a	tumor	liver	HCC	angioinvasive	III / IV	m	62	4	n.av	n.av	n.av	
8b	tumor	liver	HCC	angioinvasive	III / IV	m	76	4	n.av	n.av	3	
8c	tumor	liver	HCC	angioinvasive	IV	m	60	3	1	n.av	3	
8d	tumor	liver	HCC	angioinvasive	IV	m	64	3	1	n.av	2	
8e	tumor	liver	HCC	angioinvasive	IV	m	58	3b	0	1	2	

In vitro laboratory use only.
 Not intended for any human or animal diagnostic or therapeutic use. 2 / 3

Position	Tissue Type	Organ	Diagnosis	Specification	Stage	Gender	Age	pT	pN	pM	Grade	Remarks
9a	tumor	liver	HCC	solid-trabecular	I	m	60	1	0	n.av	3	
9b	tumor	liver	HCC	solid-trabecular	II	m	69	2	n.av	n.av	3	
9c	tumor	liver	HCC	solid-trabecular	II	f	73	2	n.av	n.av	2	
9d	tumor	liver	HCC	solid-trabecular	II	m	65	2	0	n.av	3	
9e	tumor	liver	HCC	solid-trabecular	III	m	56	3	0	n.av	2	
9f	tumor	liver	HCC	solid-trabecular	III / IV	m	74	3	X	n.av	3	
10a	tumor	liver	HCC	solid-trabecular	III / IV	m	71	3	n.av	n.av	2	
10b	tumor	liver	HCC	solid-trabecular	III / IV	f	78	3	X	X	2	
10c	tumor	liver	HCC	solid-trabecular	III / IV	m	47	4	n.av	n.av	3	
10d	tumor	liver	HCC	solid-trabecular	III / IV	m	63	4	n.av	n.av	3	
11a	tumor	liver	HCC	solid	III	f	64	4	0	n.av	3	
11b	tumor	liver	HCC	trabecular	I	m	77	1	n.av	n.av	1	
11c	tumor	liver	HCC	trabecular	III	m	80	3	0	n.av	2	
11d	tumor	liver	HCC	mixed form trabecular-pseudoglandular	II	m	66	2	0	n.av	2	
11e	tumor	liver	HCC	clear cell	III / IV	f	64	3	X	X	4	
11f	tumor	liver	HCC	clear cell	IV	f	63	3	1	n.av	2	
12a	tumor	liver	HCC	fibrolamellar	I	f	42	1	0	X	2	
12b	tumor	liver	HCC	fibrolamellar	III	f	76	3	0	n.av	1	
12c	tumor	liver	HCC	fibrolamellar	III / IV	f	58	3	n.av	n.av	2	
12d	tumor	liver	HCC	fibrolamellar	IV	f	28	3	1	n.av	3	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray

Urinary Bladder Carcinoma

Cat.-Nr.: 401 2217

Slide label					
	a	b	c	d	e
1	●	●	●	●	●
2	●	●	●	●	●
3	●	●	●	●	●
4	●	●	●	●	●
5	●	●	●	●	●
6	●	●	●	●	●
7	●	●	●	●	●
8	●	●	●	●	●
9	●				
10	●	●	●	●	●
11	●	●	●	●	●
12	●				

Technical Information: 52 spots

- Spot diameter: 1.5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded
- Tissue type validated by immunohistochemistry

Pos	Diagnosis	Subtype	Age	Gender	pT	pN	pM	G	Remarks
1a	Bladder cancer	Transitional cell carcinoma	55	m	3a	1	x	3	
1b	Bladder cancer	Transitional cell carcinoma	71	f	4a	2	x	3	
1c	Bladder cancer	Transitional cell carcinoma	60	f	3a	x	x	3	
1d	Bladder cancer	Transitional cell carcinoma	71	m	4a	0	x	3	
1e	Bladder cancer	Transitional cell carcinoma	62	m	3a	0	x	3	
2a	Bladder cancer	Transitional cell carcinoma	67	f	3a	x	x	3	
2b	Bladder cancer	Transitional cell carcinoma	51	f	3b	x	x	3	
2c	Bladder cancer	Transitional cell carcinoma	71	m	3	x	x	3	
2d	Bladder cancer	Transitional cell carcinoma	70	m	4b	x	x	3	
2e	Bladder cancer	Transitional cell carcinoma	80	m	3b	2	x	3	
3a	Bladder cancer	Transitional cell carcinoma	82	m	3b	x	x	3	
3b	Bladder cancer	Transitional cell carcinoma	73	m	3b	2	x	3	
3c	Bladder cancer	Transitional cell carcinoma	79	f	4a	0	x	3	
3d	Bladder cancer	Transitional cell carcinoma	57	f	4a	2	1	3	
3e	Bladder cancer	Transitional cell carcinoma	76	f	4a	x	x	3	
4a	Bladder cancer	Transitional cell carcinoma	72	f	4a	x	x	3	
4b	Bladder cancer	Transitional cell carcinoma	49	m	3b	1	x	3	
4c	Bladder cancer	Transitional cell carcinoma	68	m	4a	2	x	3	
4d	Bladder cancer	Transitional cell carcinoma	63	m	3a	0	x	3	
4e	Bladder cancer	Transitional cell carcinoma	64	f	3	0	x	3	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Pos	Diagnosis	Subtype	Age	Gender	pT	pN	pM	G	Remarks
5a	Bladder cancer	Transitional cell carcinoma	77	m	4a	3	1	3	
5b	Bladder cancer	Transitional cell carcinoma	81	m	4a	3	x	3	
5c	Bladder cancer	Transitional cell carcinoma	89	m	2a	x	x	3	
5d	Bladder cancer	Transitional cell carcinoma	77	m	2a	x	x	3	
5e	Bladder cancer	Transitional cell carcinoma	87	m	2a	x	x	3	
6a	Bladder cancer	Transitional cell carcinoma	86	m	2	x	x	2	
6b	Bladder cancer	Transitional cell carcinoma	47	f	4b	2	x	3	
6c	Bladder cancer	Transitional cell carcinoma	76	f	3b	0	x	3	
6d	Bladder cancer	Transitional cell carcinoma	71	f	3b	0	x	3	
6e	Bladder cancer	Transitional cell carcinoma	60	m	4a	0	x	2	
7a	Bladder cancer	Transitional cell carcinoma	60	m	3a	1	x	3	
7b	Bladder cancer	Transitional cell carcinoma	76	m	2a	0	x	3	
7c	Bladder cancer	Transitional cell carcinoma	71	f	3a	1	x	3	
7d	Bladder cancer	Transitional cell carcinoma	66	f	2a	x	1	2	
7e	Bladder cancer	Transitional cell carcinoma	57	m	2	2b	1	3	
8a	Bladder cancer	Transitional cell carcinoma	65	m	3b	0	x	3	
8b	Bladder cancer	Transitional cell carcinoma	66	f	3b	0	x	3	
8c	Bladder cancer	Transitional cell carcinoma	68	m	3a	0	x	3	
8d	Bladder cancer	Transitional cell carcinoma	69	m	4a	2	x	3	
8e	Bladder cancer	Transitional cell carcinoma	63	f	3a	2	x	3	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Data Sheet
 Urinary Bladder Carcinoma TMA
 Cat.-Nr.: 401 2217

Pos	Diagnosis	Subtype	Age	Gender	pT	pN	pM	G	Remarks
9a	Bladder cancer	Transitional cell carcinoma	47	m	4a	2	x	3	
10a	Bladder cancer	Squamous cell carcinoma	66	m	3b	2	x	3	
10b	Bladder cancer	Squamous cell carcinoma	61	f	3b	0	x	2	
10c	Bladder cancer	Squamous cell carcinoma	65	m	3b	0	x	3	
10d	Bladder cancer	Squamous cell carcinoma	67	m	4a	0	x	2	
10e	Bladder cancer	Squamous cell carcinoma	66	f	3a	1	x	2	
11a	Bladder cancer	Squamous cell carcinoma	66	m	2b	0	x	2	
11b	Bladder cancer	Neuroendocrine carcinoma	71	m	3a	x	x	3	
11c	Bladder cancer	Neuroendocrine carcinoma	71	m	2a	x	x	3	
11d	Bladder cancer	Adenocarcinoma	68	f	3b	2	x	3	
11e	Bladder cancer	Adenocarcinoma	65	m	3a	x	x	2	
12a	Bladder cancer	Sarcomatoid carcinoma	67	f	3a	0	x	3	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray

Head & Neck Squamous Cell Carcinoma

Cat.-No.: 401 2218

Slide Label								
	a	b	c	d	e	f	g	h
1	* ●	● †	* ●	● †	* ●	● †	* ●	● †
2	* ●	● †	* ●	● †	* ●	● †	* ●	● †
3	* ●	● †	* ●	● †	* ●	● †	* ●	● †
4	* ●	● †	* ●	● †	* ●	● †	* ●	● †
5	* ●	● †	* ●	● †	* ●	● †	* ●	● †
6	* ●	● †	* ●	● †	* ●	● †	* ●	● †
7	* ●	● †	* ●	● †	* ●	● †	* ●	● †
8	* ●	● †	* ●	● †	* ●	● †	* ●	● †
9	* ●	● †	* ●	● †	* ●	● †	* ●	● †
10	* ●	● †	* ●	● †	* ●	● †	* ●	● †
11	* ●	● †	* ●	● †	* ●	● †	* ●	● †
12	* ●	● †	* ●	● †	* ●	● †	* ●	● †
13	* ●	● †	* ●	● †	* ●	● †		
14	* ●	● †	* ●	● †				

Technical Information: 106 Spots (104 Spots requested)

- Spot diameter: 1.5 mm
- Fixation in 4% (w/v) neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Data Sheet

Head & Neck Squamous Cell Carcinoma Cat.-No.: 401 2218

Position	add. for	Tissue Type	Organ	Diagnosis	Gender	Age	pT	pN	pM	Grade	remarks
1a		tumor	Root of tongue	SCC	f	58	3	1	X	2	
1b	1a	tumor	Root of tongue	SCC	f	58	3	1	X	2	
1c		tumor	Root of tongue	SCC	m	50	2	X	X	3	
1d	1c	tumor	Root of tongue	SCC	m	50	2	X	X	3	
1e		tumor	Root of tongue	SCC	m	57	3	2b	X	1	
1f	1e	tumor	Root of tongue	SCC	m	57	3	2b	X	1	
1g		tumor	Root of tongue	SCC	f	57	3	0	X	2	
1h	1g	tumor	Root of tongue	SCC	f	57	3	0	X	2	
2a		tumor	Root of tongue	SCC	m	54	3	2b	X	2	
2b	2a	tumor	Root of tongue	SCC	m	54	3	2b	X	2	
2c		tumor	Root of tongue	SCC	m	39	3	2b	X	2	
2d	2c	tumor	Root of tongue	SCC	m	39	3	2b	X	2	
2e		tumor	Tongue	SCC	m	61	2	2	X	1	
2f	2e	tumor	Tongue	SCC	m	61	2	2	X	1	
2g		tumor	Tongue	SCC	f	59	2	2b	X	3	
2h	2g	tumor	Tongue	SCC	f	59	2	2b	X	3	
3a		tumor	Tongue	SCC	m	52	4	1	X	2	
3b	3a	tumor	Tongue	SCC	m	52	4	1	X	2	
3c		tumor	Tongue	SCC	m	48	2	X	X	2	
3d	3c	tumor	Tongue	SCC	m	48	2	X	X	2	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Data Sheet

Head & Neck Squamous Cell Carcinoma Cat.-No.: 401 2218

Position	add. for	Tissue Type	Organ	Diagnosis	Gender	Age	pT	pN	pM	Grade	remarks
3e		tumor	Tongue	SCC	m	52	2	1	X	2	
3f	3e	tumor	Tongue	SCC	m	52	2	1	X	2	
3g		tumor	Tongue	SCC	m	45	2	0	X	1	
3h	3g	tumor	Tongue	SCC	m	45	2	0	X	1	
4a		tumor	Tongue	SCC	m	51	2	2b	X	2	
4b	4a	tumor	Tongue	SCC	m	51	2	2b	X	2	
4c		tumor	Upper gum	SCC	m	60	4	X	X	2	
4d	4c	tumor	Upper gum	SCC	m	60	4	X	X	2	
4e		tumor	Upper gum	SCC	f	68	1	X	X	1	new block / same case compared to 415P
4f	4e	tumor	Upper gum	SCC	f	68	1	X	X	1	new block / same case compared to 415P
4g		tumor	Lower gum	SCC	m	63	2	X	X	2	
4h	4g	tumor	Lower gum	SCC	m	63	2	X	X	2	
5a		tumor	Upper gum	SCC	m	79	4	X	X	2	
5b	5a	tumor	Upper gum	SCC	m	79	4	X	X	2	
5c		tumor	Upper gum	SCC	f	41	4	X	X	1	
5d	5c	tumor	Upper gum	SCC	f	41	4	X	X	1	
5e		tumor	Lower gum	SCC	m	61	4	2	X	2	
5f	5e	tumor	Lower gum	SCC	m	61	4	2	X	2	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Data Sheet

Head & Neck Squamous Cell Carcinoma Cat.-No.: 401 2218

Position	add. for	Tissue Type	Organ	Diagnosis	Gender	Age	pT	pN	pM	Grade	remarks
5g		tumor	Floor of mouth	SCC	f	44	3	2b	X	1	
5h	5g	tumor	Floor of mouth	SCC	f	44	3	2b	X	1	
6a		tumor	Floor of mouth	SCC	m	55	2	0	X	3	
6b	6a	tumor	Floor of mouth	SCC	m	55	2	0	X	3	
6c		tumor	Floor of mouth	SCC	m	46	4	2b	X	2	
6d	6c	tumor	Floor of mouth	SCC	m	46	4	2b	X	2	
6e		tumor	Floor of mouth	SCC	f	70	4	0	X	1	
6f	6e	tumor	Floor of mouth	SCC	f	70	4	0	X	1	
6g		tumor	Floor of mouth	SCC	m	45	2	0	X	2	
6h	6g	tumor	Floor of mouth	SCC	m	45	2	0	X	2	new block / same case compared to 415P
7a		tumor	Floor of mouth	SCC	m	70	4	0	X	2	
7b	7a	tumor	Floor of mouth	SCC	m	70	4	0	X	2	
7c		tumor	Tonsil	SCC	m	52	3	1	X	2	
7d	7c	tumor	Tonsil	SCC	m	52	3	1	X	2	
7e		tumor	Tonsil	SCC	m	50	2	1	X	3	
7f	7e	tumor	Tonsil	SCC	m	50	2	1	X	3	
7g		tumor	Tonsil	SCC	m	58	4	1	X	2	
7h	7g	tumor	Tonsil	SCC	m	58	4	1	X	2	
8a		tumor	Tonsil	SCC	m	47	2	X	X	3	
8b	8a	tumor	Tonsil	SCC	m	47	2	X	X	3	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Data Sheet

Head & Neck Squamous Cell Carcinoma Cat.-No.: 401 2218

Position	add. for	Tissue Type	Organ	Diagnosis	Gender	Age	pT	pN	pM	Grade	remarks
8c		tumor	Oropharynx	SCC	m	59	3	X	X	2	
8d	8c	tumor	Oropharynx	SCC	m	59	3	X	X	2	
8e		tumor	Oropharynx	SCC	m	62	3	1	X	2	new block / same case compared to 415P
8f	8e	tumor	Oropharynx	SCC	m	62	3	1	X	2	new block / same case compared to 415P
8g		tumor	Oropharynx	SCC	f	59	2	2b	X	2	
8h	8g	tumor	Oropharynx	SCC	f	59	2	2b	X	2	
9a		tumor	Oropharynx	SCC	m	54	4a	0	X	3	new block / same case compared to 415P
9b	9a	tumor	Oropharynx	SCC	m	54	4a	0	X	3	new block / same case compared to 415P
9c		tumor	Oropharynx	SCC	m	62	3	2b	X	2	
9d	9c	tumor	Oropharynx	SCC	m	62	3	2b	X	2	
9e		tumor	Oropharynx	SCC	m	68	2	2b	X	2	
9f	9e	tumor	Oropharynx	SCC	m	68	2	2b	X	2	
9g		tumor	Nasopharynx	SCC	f	69	4	2b	X	3	
9h	9g	tumor	Nasopharynx	SCC	f	69	4	2b	X	3	
10a		tumor	Sinus piriformis	SCC	m	54	3	2b	X	3	
10b	10a	tumor	Sinus piriformis	SCC	m	54	3	2b	X	3	
10c		tumor	Sinus piriformis	SCC	m	59	4	X	X	X	
10d	10c	tumor	Sinus piriformis	SCC	m	59	4	X	X	X	

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Position	add. for	Tissue Type	Organ	Diagnosis	Gender	Age	pT	pN	pM	Grade	remarks
10e		tumor	Sinus piriformis	SCC	m	62	3	1	X	3	
10f	10e	tumor	Sinus piriformis	SCC	m	62	3	1	X	3	
10g		tumor	Sinus piriformis	SCC	m	59	4a	2c	X	3	
10h	10g	tumor	Sinus piriformis	SCC	m	59	4a	2c	X	3	
11a		tumor	Hypopharynx	SCC	m	54	2	0	X	2	
11b	11a	tumor	Hypopharynx	SCC	m	54	2	0	X	2	
11c		tumor	Hypopharynx	SCC	m	49	3	1	X	2	
11d	11c	tumor	Hypopharynx	SCC	m	49	3	1	X	2	
11e		tumor	Hypopharynx	SCC	m	58	3	0	X	2	
11f	11e	tumor	Hypopharynx	SCC	m	58	3	0	X	2	
11g		tumor	Hypopharynx	SCC	m	59	3	2b	X	2	
11h	11g	tumor	Hypopharynx	SCC	m	59	3	2b	X	2	
12a		tumor	Hypopharynx	SCC	m	43	3	2b	X	2	
12b	12a	tumor	Hypopharynx	SCC	m	43	3	2b	X	2	
12c		tumor	Hypopharynx	SCC	m	54	3	X	X	1	
12d	12c	tumor	Hypopharynx	SCC	m	54	3	X	X	1	
12e		tumor	Larynx	SCC	m	60	4	2b	X	2	new case compared to 415P
12f	12e	tumor	Larynx	SCC	m	60	4	2b	X	2	new case compared to 415P

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Data Sheet

Head & Neck Squamous Cell Carcinoma Cat.-No.: 401 2218

Position	add. for	Tissue Type	Organ	Diagnosis	Gender	Age	pT	pN	pM	Grade	remarks
12g		tumor	Larynx	SCC	m	63	2	X	X	2	
12h	12g	tumor	Larynx	SCC	m	63	2	X	X	2	
13a		tumor	Larynx	SCC	m	50	3	0	X	2	
13b	13a	tumor	Larynx	SCC	m	50	3	0	X	2	
13c		tumor	Larynx	SCC	f	47	4	1	X	2	
13d	13c	tumor	Larynx	SCC	f	47	4	1	X	2	
13e		tumor	Larynx	SCC	m	44	4a	X	X	2	
13f	13e	tumor	Larynx	SCC	m	44	4a	X	X	2	
14a		tumor	Larynx	SCC	m	56	4	2b	X	2	few tumor content (5%)
14b	14a	tumor	Larynx	SCC	m	56	4	2b	X	2	
14c		tumor	Larynx	SCC	m	53	3	X	X	2	new case compared to 415P
14d	14c	tumor	Larynx	SCC	m	53	3	X	X	2	new case compared to 415P

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Multi Tumor: 4 organs

Cat.-No.: 401 2401

Sample Datasheet

Slide Label				
	a	b	c	d
1	●	●	●	●
2	●	●	●	●
3	●	●		
4	●	●		

Technical Information: 12 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 2401

Position	Diagnosis	Organ	Sex	Age	pT	pN	pM	Grade	Remarks
1a	ADC	lung	m	63	2	0	X	2	
1b	ADC	lung	m	66	3	1	X	3	
1c	Peritumerous fibromuscular tissue	colon	f	78	2	0	X	3	
1d	ADC	colon	m	68	3	2	X	2	
2a	ADC	prostate	m	73	3a	0	X	3a	
2b	ADC	prostate	m	66	2b	0	X	2a	
2c	ADC	breast	f	65	2	3a	X	2	
2d	ADC	breast	f	65	y4b	y1a	1	2	
3a	normal	lung	f	47					
3b	normal	colon	m	68					Same patient as sample 1d
4a	Normal (hyperplasia)	prostate	m	62					
4b	normal	breast	f	31					

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Multi Tumor: 10 organs

Cat.-No.: 401 2402

Sample Datasheet

Slide Label				
	a	b	c	d
1	●	●	●	●
2	●	●	●	●
3	●	●	●	
4	●	●	●	●
5	●	●	●	●
6	●	●		●

Technical Information: 22 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 2402

Position	Diagnosis	Organ	Sex	Age	pT	pN	pM	Grade	Remarks
1a	ADC (CCC)	Liver	f	38	3	1	X	2	
1b	ADC (HCC)	Liver	m	68	2	X	X	3	
1c	ADC (NCC)	Kidney	f	73	1a	X	X	2	
1d	ADC	Ovary	f	53	3c	0	X	3	
2a	ADC	Pancreas	m	70	2	0	X	2	
2b	ADC	Prostate	m	62	2b	1	X	3a	
2c	ADC	Esophagus	f	82	3	1	x	3	Same patient as sample 5c
2d	ADC	Stomach	m	71	3	3	X	3	
3a	ADC	Colon	f	59	3	2	X	3	
3b	ADC	Lung	f	74	3	0	x	2	
3c	ADC	Breast	f	92	3	1a	X	3	
4a	Normal (with portal inflammation and bile duct proliferation)	Liver	f	38					Same patient as sample 1a
4b	Normal	Liver	f	60					
4c	Normal	Kidney	m	74					
4d	Normal	Ovary	f	33					
5a	Normal	Pancreas	f	74					
5b	Normal (hyperplasia)	Prostate	m	73					
5c	Normal mucosa	Esophagus	f	82					
5d	Normal mucosa	Stomach	m	71					Same patient as sample 2d
6a	Normal mucosa	Colon	f	59					Same patient as sample 3a
6b	Normal	Lung	m	42					
6c									
6d	Normal	Breast	f	31					

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Multi Tumor: 12 organs

Cat.-No.: 401 2403 Sample Datasheet

Slide Label					
	a	b	c	d	e
1	●	●	●	●	●
2	●	●	●	●	●
3	●	●			
4	●	●	●	●	
5	●	●	●	●	
6	●	●	●	●	

Technical Information: 24 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 2403

Position	Diagnosis	Organ	Sex	Age	pT	pN	pM	Grade	Remarks
1a	SCC	vulva	f	81	3	2	x	2	
1b	SCC	cervix	f	59	2b	1	x	2	
1c	SCC	penis (scrotum)	m	91	2	x	x	2	
1d	SCC	anus/anorectal	f	74	3	0	x	3	
1e	SCC	lung	f	61	1	0	x	3	
2a	SCC	dermis (nose)	m	82	1	x	x	2	
2b	SCC	oral (floor of the mouth)	m	46	2	0	x	2	
2c	SCC	oral (tongue)	f	64	1	0	x	2	
2d	SCC	larynx	m	45	4a	x	x	2	
2e	SCC	oropharynx	m	68	1	0	x	2	
3a	SCC	hypopharynx	f	69	4	2b	x	3	
3b	SCC	esophagus	m	60	3	1	x	2	
4a	normal	vulva	f	68					
4b	normal	cervix	f	50					
4c	normal	penis (scrotum)	m	56					
4d	normal	anus/anorectal	m	63					
5a	normal	bronchus	f	61					same patient as sample 1e
5b	normal	dermis (nose)	m	82					same patient as sample 2a
5c	normal	oral (floor of the mouth)	f	54					
5d	normal	oral (tongue)	f	64					same patient as sample 2c
6a	normal	larynx	m	45					same patient as sample 2d
6b	normal	oropharynx	m	68					same patient as sample 2e
6c	normal	hypopharynx	f	69					same patient as sample 3a
6d	normal	esophagus	m	60					same patient as sample 3b

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Colitis Tissue

Cat.-No.: 401 3101

Sample Datasheet

Slide Label				
	a	b	c	d
1	●	●	●	●
2	●	●	●	●
3	●	●	●	●
4	●	●	●	●
5	●	●	●	●
6	●	●	●	●
7	●	●	●	●
8	●	●	●	●
9	●	●	●	●
10	●			

Technical Information: 36 spots (+ 1 spot for orientation)

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 3101

Position	Localisation	Diagnostics	Sex	Age
1a	mucosa	colitis ulcerosa	m	38
1b	mucosa	colitis ulcerosa	m	38
1c	muscularis	colitis ulcerosa	m	38
1d	muscularis	colitis ulcerosa	m	38
2a	mucosa /submucosa	colitis ulcerosa	f	43
2b	mucosa /submucosa	colitis ulcerosa	f	43
2c	muscularis	colitis ulcerosa	f	43
2d	muscularis	colitis ulcerosa	f	43
3a	mucosa	colitis ulcerosa	f	24
3b	mucosa	colitis ulcerosa	f	24
3c	muscularis	colitis ulcerosa	f	24
3d	muscularis	colitis ulcerosa	f	24
4a	mucosa	Morbus Crohn	f	41
4b	mucosa	Morbus Crohn	f	41
4c	muscularis	Morbus Crohn	f	41
4d	muscularis	Morbus Crohn	f	41
5a	mucosa	Morbus Crohn	f	39
5b	mucosa	Morbus Crohn	f	39
5c	muscularis	Morbus Crohn	f	39
5d	muscularis	Morbus Crohn	f	39
6a	mucosa	Morbus Crohn	f	57
6b	mucosa	Morbus Crohn	f	57
6c	muscularis	Morbus Crohn	f	57
6d	muscularis	Morbus Crohn	f	57
7a	mucosa	appendicitis	m	73
7b	mucosa	appendicitis	m	73
7c	muscularis	appendicitis	m	73

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
 Cat.-No.: 401 3101

Position	Localisation	Diagnostics	Sex	Age
7d	muscularis,mucosa	appendicitis	m	73
8a	mucosa	normal ileum mucosa	m	73
8b	mucosa	normal ileum mucosa	m	73
8c	muscularis	normal ileum mucosa	m	73
8d	muscularis	normal ileum mucosa	m	73
9a	mucosa	normal colon mucosa	f	86
9b	mucosa	normal colon mucosa	f	86
9c	muscularis	normal colon mucosa	f	86
9d	muscularis	normal colon mucosa	f	86
10a	Liver tissue	Control position for TMA orientation		

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Synovitis Tissue

Cat.-No.: 401 3201 Sample Datasheet

Slide Label						
	a	b	c	d	e	f
1	●	●	●	●	●	●
2	●	●	●	●		
3	●	●	●	●	●	●
4	●	●	●	●	●	●
5	●	●	●	●	●	●

Technical Information: 28 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry /classified according to synovitis score by Krenn (Pathol Res Pract. 2002)

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 3201

Position	Tissue	Diagnosis	Score	Sex	Age
1a	wrist	RA	6 / 9	f	65
1b	wrist	RA	6 / 9	f	65
1c	ankle	RA	6 / 9	m	70
1d	ankle	RA	6 / 9	m	70
1e	shoulder	RA	8 / 9	f	32
1f	shoulder	RA	8 / 9	f	32
2a	knee	RA	8 / 9	m	62
2b	knee	RA	8 / 9	m	62
2c	joint	RA	7 / 9	f	59
2d	joint	RA	7 / 9	f	59
3a	knee	PSA	5 / 9	m	45
3b	knee	PSA	5 / 9	m	45
3c	knee	normal tissue	0 / 9	m	56
3d	knee	normal tissue	0 / 9	m	56
3e	SCC III	normal tissue	1 / 9	f	79
3f	SCC III	normal tissue	1 / 9	f	79
4a	hip	OA	5 / 9	f	76
4b	hip	OA	5 / 9	f	76
4c	joint	OA	4 / 9	f	88
4d	joint	OA	4 / 9	f	88
4e	knee	OA	3 / 9	m	64
4f	knee	OA	3 / 9	m	64
5a	hip	OA	6 / 9	f	77
5b	hip	OA	6 / 9	f	77
5c	hip	OA	4 / 9	f	73
5d	hip	OA	4 / 9	f	73
5e	joint	OA	3 / 9	f	63
5f	joint	OA	3 / 9	f	63

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Autoimmune Tissue

Cat.-No.: 401 3301 Sample Datasheet

Slide Label						
	a	b	c	d	e	f
1	●	●	●	●	●	●
2	●	●	●	●	●	●
3	●	●	●	●		
4	●	●	●	●		
5	●	●	●	●		
6	●	●	●			
7	●	●	●	●	●	●
8	●	●	●	●	●	●
9	●	●	●	●		

Technical Information: 43 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 3301

Position	Diagnosis	Tissue	Sex	Age
1a	Hashimoto-Thyreoiditis	Thyroid	f	37
1b	Hashimoto-Thyreoiditis	Thyroid	f	37
1c	Hashimoto-Thyreoiditis	Thyroid	f	13
1d	Hashimoto-Thyreoiditis	Thyroid	f	13
1e	Hashimoto-Thyreoiditis	Thyroid	f	49
1f	Hashimoto-Thyreoiditis	Thyroid	f	49
2a	Primäre biliäre Zirrhose	Liver	m	47
2b	Primäre biliäre Zirrhose	Liver	m	47
2c	Sjögren	Submandibularis	f	72
2d	Sjögren	Submandibularis	f	72
2e	Sjögren	Labium oris	f	47
2f	Sjögren	Labium oris	f	47
3a	Sinusitis & Eosinophilie	Nasal mucosa	m	62
3b	Sinusitis & Eosinophilie	Nasal mucosa	m	62
3c	Sinusitis & Eosinophilie	Nasal mucosa	m	62
3d	Sinusitis & Eosinophilie	Nasal mucosa	m	62
4a	Rheumatoide Arthritis	Synovial	f	59
4b	Rheumatoide Arthritis	Synovial	f	59
4c	Psoriasis	Synovial	m	46
4d	Psoriasis	Synovial	m	46
5a	Morbus Crohn	Sigma (muscularis)	f	17
5b	Morbus Crohn	Sigma (mucosa)	f	17
5c	Sarkoidose	Lung	f	67
5d	Sarkoidose	Lung	f	67
6a	Granulomat. Thyreoiditis de Quervain	Thyroid	f	52
6b	Granulomat. Thyreoiditis de Quervain	Thyroid	f	52

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
 Cat.-No.: 401 3301

Position	Diagnosis	Tissue	Sex	Age
6c	Lupus erythematoses	Dermis	f	65
7a	normal	Thyroid	m	53
7b	normal	Thyroid	m	53
7c	normal	Liver	m	61
7d	normal	Liver	m	61
7e	normal	Salivary gland	m	40
7f	normal	Salivary gland	m	40
8a	normal	Dermis	m	41
8b	normal	Dermis	m	41
8c	normal (Sinusitis w/o. Eosinophilie)	Nasal mucosa	m	36
8d	normal (Sinusitis w/o. Eosinophilie)	Nasal mucosa	m	36
8e	normal	Sigma	m	58
8f	normal	Sigma	m	58
9a	normal	Lung	m	47
9b	normal	Lung	m	47
9c	normal	Synovial	m	30
9d	normal	Synovial	m	30

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Myocardial Infarction

Cat.-No.: 401 4101

Sample Datasheet

Slide Label					
	a	b	c	d	e
1	●	●	●	●	●
2	●	●	●	●	●
3	●	●	●	●	●
4	●	●	●	●	●
5	●	●	●	●	●
6	●	●	●	●	●
7	●	●	●	●	
8	●	●	●	●	
9	●	●			
10	●	●	●	●	●
11	●	●	●	●	●

Technical Information: 50 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

📖 Sample Datasheet
Cat.-No.: 401 4101

Position	Diagnosis	Localisation	Sex	Age
1a	acute infarction	anterior	m	50
1b	acute infarction	anterior	m	50
1c	acute infarction	posterior	m	81
1d	acute infarction	posterior	m	81
1e	acute infarction	posterior	f	49
2a	acute infarction	posterior	f	49
2b	acute infarction + focal fibrosis	posterior	m	71
2c	acute infarction + focal fibrosis	posterior	m	71
2d	acute infarction	septal	m	76
2e	acute infarction	septal	m	76
3a	acute infarction	septal	m	65
3b	acute infarction	septal	m	65
3c	acute infarction	septal	m	56
3d	acute infarction + focal fibrosis	septal	m	56
3e	acute infarction + focal fibrosis	septal	m	81
4a	acute infarction	septal	m	81
4b	acute infarction	posterior	m	58
4c	acute infarction	posterior	m	58
4d	acute infarction	posterior	m	57
4e	acute infarction	posterior	m	57
5a	old granulation tissue + transition into myocardial scar	anterior	f	71
5b	old granulation tissue + transition into myocardial scar	anterior	f	71
5c	old granulation tissue + myocardial scar	anterior	m	89
5d	old granulation tissue + myocardial scar	anterior	m	89
5e	old granulation tissue + myocardial scar	posterior	m	60

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 4101

Position	Diagnosis	Localisation	Sex	Age
6a	old granulation tissue + myocardial scar	posterior	m	60
6b	old granulation tissue + myocardial scar	posterior	m	71
6c	old granulation tissue + myocardial scar	posterior	m	71
6d	myocardial scar	septal	m	67
6e	myocardial scar	septal	m	67
7a	myocardial scar	septal	m	71
7b	myocardial scar	septal	m	71
7c	myocardial scar	septal	m	59
7d	myocardial scar	septal	m	59
8a	myocardial infarction	posterior	m	81
8b	myocardial scar (25-30%) matched Pos. 8a	posterior	m	81
8c	myocardial scar	anterior	m	60
8d	myocardial scar	anterior	m	60
9a	myocardial scar	posterior	m	66
9b	myocardial scar	posterior	m	66
10a	normal tissue	left vertricle	m	69
10b	normal tissue	left vertricle	f	77
10c	normal tissue	left vertricle	f	70
10d	normal tissue	left vertricle	f	57
10e	normal tissue	left vertricle	m	55
11a	normal tissue	right ventricle	m	69
11b	normal tissue	right ventricle	f	77
11c	normal tissue	right ventricle	f	70
11d	normal tissue	right ventricle	f	57
11e	normal tissue	right ventricle	m	55

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Left Heart Tissue Myocardial Hypertrophy I

Cat.-No.: 401 4102

Sample Datasheet

Slide Label				
	a	b	c	d
1	●	●	●	●
2	●	●	●	●
3	●	●	●	●
4	●	●	●	●
5	●	●	●	
6	●	●	●	

Technical Information: 22 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

* Hypertrophy was determined by heart weight analysis and histologic grading (nucleus size and filament gauge). Detailed data are available on request.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Position	Localisation	Heart disease	left ventricle wall thickness in mm	Hypertrophy diagnostic by heart weight *	Hypertrophy histologic grading* nucleus size	Hypertrophy histologic grading* fibre thickness	Sex	Age
1a	septal	multiple metachronous myocardial infarctions, abacterial endocarditis of mitral valve	14	normal	2 3 1	2 1 3	f	52
1b	septal	Fibrosis and lipomatosis of the left ventricle	20	hypertroph	2 3 1	2 1 3	m	62
1c	septal	Myocardial infarctions, dilatation of both ventricles, coronary heart disease, arrhythmia, 4 fold bypass	18	hypertroph	2 3 1	1 2	m	80
1d	septal	mechanical mitral valve, decompensated restrictive cardiomyopathy	15	hypertroph	2 3 1	2 1 3	m	62
2a	septal	Dilatation of left ventricle, calcification of the base of mitral valve	7	normal	2 3 4	2 1 3	m	62
2b	septal	Dilatation of left ventricle with rounded apex cordis	15	normal	2 1 3	2 1	m	54
2c	left ventricle		20	normal	2 1 3	2 1 3	m	76
2d	left ventricle	cardiogenic shock, aortal valve replacement, 3 fold coronary bypass, myocardial infarction (ventral left ventricle)	20	hypertroph	2 1 3	2 1 3	m	62
3a	left ventricle	Hypertensive heart disease	17	normal	2 3 1	2 1 3	m	62
3b	left ventricle	decompensated chronic ischemic heart disease, Dilatation of left atrium, left and right ventricles, Mitral valve insufficiency	16	hypertroph	2 1 3	1 2	m	70
3c	left ventricle		12	normal	2 1 3	2 3 4	f	65
3d	left ventricle	Dilatation and lipomatous transformation of left ventricle, calcification of mitral and aortic valves	18	normal with fibrosis	2 3 1	3 4 2	f	76

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Position	Localisation	Heart disease	left ventricle wall thickness in mm	Hypertrophy diagnostic by heart weight *	Hypertrophy histologic grading* nucleus size	Hypertrophy histologic grading* fibre thickness	Sex	Age
4a	left ventricle	Dilatation of left and right ventricles	16	hypertroph	2 3	1 2	f	53
4b	left ventricle	chronic ischemic heart disease, infarction of ventral left ventricle, Dilatation of both ventricles	16	normal	2 3 1	1 2	f	93
4c	left ventricle		15	normal	2 1 3	2 1 3	m	43
4d	left ventricle	Cardiac failure, Ischemia, myocardial infarction of posterior left ventricle, Dilatation of both ventricles, tricuspid valve insufficiency	14	normal	2 3 1	2 3 1	m	64
5a	left ventricle	myocardial sclerosis and dilatation of left ventricle	16	normal	2 1 3	2 1 3	m	63
5b	septal	chronic Cor pulmonale, myocardial sclerosis of left ventricle, Dilatation of right ventricle	16	hypertroph	2 1 3	2 1	m	68
5c	septal	Dilatation of both ventricles	14	normal	2 3 1	1 2	m	66
6a	left ventricle	hypertensive heart disease, myocardial infarction of left posterior ventricle, lipomatosis of left ventricle, Dilatation of right ventricle	20	hypertroph	2 3 1	3 2 1	m	84
6b	left ventricle	Myocardial infarction with acute reinfarction of left ventricle (anterior, posterior and septum) Dilatation of both ventricles	20	hypertroph	2 3	2 3 1	m	72
6c	left ventricle	ulceropolypous aortic valve endocarditis with valve perforation and rupture	14	normal	2 1	3 2 4	m	38

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Right Heart Tissue Myocardial Hypertrophy II (tissue matched to 401 4102, left heart)

Cat.-No.: 401 4103 Sample Datasheet

Slide Label				
	a	b	c	d
1	●	●	●	●
2	●	●	●	●
3	●	●	●	●
4	●	●	●	●
5	●	●		
6	●	●		
7	●	●		

Technical Information: 22 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

* Hypertrophy was determined by heart weight analysis and histologic grading (nucleus size and filament gauge). Detailed data are available on request.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Position	Localisation	Heart disease	ventricle wall thickness in mm	Hypertrophy diagnostic by heart weight *	Sex	Age
1a	right ventricle	multiple metachronous myocardial infarctions, abacterial endocarditis of mitral valve	14 left	normal	f	52
1b	right ventricle	Fibrosis and lipomatosis of the left ventricle	20 left/ 5 right	hypertroph	m	62
1c	right ventricle	Myocardial infarctions, dilatation of both ventricles, coronary heart disease, arrhythmia, 4 fold bypass	18 left/ 7 right	hypertroph	m	80
1d	right ventricle	Endocarditis, mechancial mitral valve, decompensated restrictive cardiomyopathy	15 left	hypertroph	m	62
2a	right ventricle	Dilatation of left ventricle, calcification of the base of mitral valve	16 left/ 7 right	normal	m	62
2b	right ventricle	Dilatation of left ventricle with rounded apex cordis	15 left	normal	m	54
2c	right ventricle		20 left	normal	m	76
2d	right ventricle	cardiogenic shock, aortal valve replacement, 3 fold coronary bypass, myocardial infarction (ventral left ventricle)	20 left/ 5 right	hypertroph	m	62
3a	right ventricle	Hypertensive heart disease	17 left	normal	m	62
3b	right ventricle	decompensated chronic ischemic heart disease, Dilatation of left atrium, left and right ventricles, Mitral valve insufficiency	16 left/ 6 right	hypertroph	m	70
3c	right ventricle		12 left/ 4 right	normal	f	65
3d	right ventricle	Dilatation and lipomatous transformation of left ventricle, calcification of mitral and aortic valves	18 left	normal	f	76
4a	right ventricle	Dilatation of left and right ventricles	16 left	hypertroph	f	53
4b	right ventricle	chronic ischemic heart disease, infarction of ventral left ventricle, Dilatation of both ventricles	16 left/ 5 right	normal	f	93
4c	right ventricle		15 left/ 4 right	normal	m	43
4d	right ventricle	Cardiac failure, Ischemia, myocardial infarction of posterior left ventricle, Dilatation of both ventricles, tricuspid valve insufficiency	14 left/ 4 right	normal	m	64

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Position	Localisation	Heart disease	ventricle wall thickness in mm	Hypertrophy diagnostic by heart weight *	Sex	Age
5a	right ventricle	myocardial sclerosis and dilatation of left ventricle	16 left/ 4-5 right	normal	m	63
5b	right ventricle	chronic Cor pulmonale, myocardial sclerosis of left ventricle, Dilatation of right ventricle	16 left/ 7 right	hypertroph	m	68
6a	right ventricle	Dilatation of both ventricles	14 left/ 6 right	normal	m	66
6b	right ventricle	hypertensive heart disease, myocardial infarction of left posterior ventricle, lipomatosis of left ventricle, Dilatation of right ventricle	20 left/ 6 right	hypertroph	m	84
7a	right ventricle	Myocardial infarction with acute reinfarction of left ventricle (anterior, posterior and septum) Dilatation of both ventricles	20 left/ 6 right	hypertroph	m	72
7b	right ventricle	ulceropolypous aortic valve endocarditis with valve perforation and rupture	14 left/ 4 right	normal	m	38

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Tissue Microarray - Human Vascular Tissue

Cat.-No.: 401 4201 Sample Datasheet

Slide Label						
	a	b	c	d	e	f
1	●	●	●	●		
2	●	●	●	●		
3	●	●	●	●	●	●
4	●	●	●	●	●	●
5	●	●	●	●	●	●
6	●	●	●	●	●	●
7	●	●	●	●	●	●
8	●	●	●	●	●	●
9	●	●	●	●	●	●

Technical Information: 50 spots

- Spot diameter: 2.0 mm
- Fixation in 4% neutral buffered formaldehyde solution
- Paraffin embedded

Tissue type validated by immunohistochemistry

* Histological Classification according to Atherosclerotic Lesions Types by H.C.Stary (1995 American Heart Association)

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 4201

Position	Tissue	Diagnosis score	Sex	Age
1a	aorta	2	m	63
1b	aorta	2	m	63
1c	aorta	2	m	63
1d	aorta	2	m	63
2a	renal artery	3	f	76
2b	renal artery	3	f	76
2c	atheroma- aorta	3	m	67
2d	atheroma- aorta	3	m	67
3a	atheroma- carotis	3/4	f	56
3b	atheroma- carotis	3/4	f	56
3c	aorta	4	f	51
3d	aorta	4	f	51
3e	atheroma-aorta	5	m	61
3f	atheroma-aorta	5	m	61
4a	coronary artery	5	f	76
4b	coronary artery	5	f	76
4c	atheroma	5/6	m	55
4d	atheroma	5/6	m	55
4e	atheroma-aorta	5/6	f	65
4f	atheroma-aorta	5/6	f	65
5a	coronary artery	6	m	67
5b	coronary artery	6	m	67
5c	Atheroma/ Riva.nod	6	f	73
5d	atheroma / Riva.nod	6	f	73
5e	vena cava	normal	m	74
5f	vena cava	normal	m	74
6a	vena cava	normal	m	69

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

 Sample Datasheet
Cat.-No.: 401 4201

Position	Tissue	Diagnosis score	Sex	Age
6b	vena cava	normal	m	69
6c	vena cava	normal	f	64
6d	vena cava	normal	f	64
6e	vena cava	normal	m	45
6f	vena cava	normal	m	45
7a	aorta	normal	m	69
7b	aorta	normal	m	69
7c	aorta	normal	f	64
7d	aorta	normal	f	64
7e	coronary artery	normal	m	70
7f	coronary artery	normal	m	70
8a	aorta	normal	m	45
8b	aorta	normal	m	45
8c	left groin	granulation tissue	f	48
8d	left groin	granulation tissue	f	48
8e	intestine	granulation tissue	f	31
8f	intestine	granulation tissue	f	31
9a	left hip	granulation tissue	f	68
9b	left hip	granulation tissue	f	68
9c	ovary	granulation tissue	f	33
9d	ovary	granulation tissue	f	33
9e	abdominal wall	granulation tissue	f	65
9f	abdominal wall	granulation tissue	f	65

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

iCon (internal control) TMA

Human Tissue Microarray

iCon (internal control) TMA®

Her2

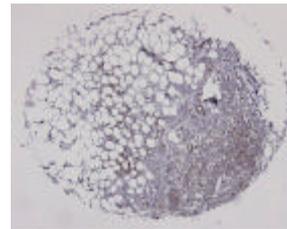
It is a useful tool for the identification of overexpression of cerbB-2 oncoprotein in a variety of epithelial neoplasms, for example subsets of breast carcinomas, pulmonary adenocarcinomas, colorectal adenocarcinomas, pulmonary squamous and gastric adenocarcinomas, transitional cell carcinomas of the urinary bladder, and endometrial adenocarcinomas.

Cat.-No.: 401 5101

Lot: 009iC

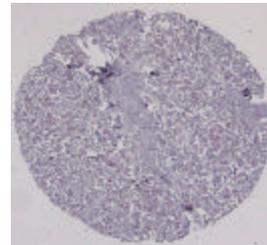
iConTMA® Label	
Free Space for your tissue under investigation	
●	●
positive	negative

ID-CA
Score +0



negative

ID-CA
Score +3



positive

Technical Information:

- Spot diameter: 1,5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

In Vitro Laboratory Use Only

Not intended for any human or animal diagnostic or therapeutic use.

Your expert in target validation



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 Aufsichtsratsvorsitzender: Bernd Hartmann
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 IBAN: DE82 1012 0100 1003 0775 82
 BIC: WELADED1WBB

Steuer-Nr.: 37/164/21415
 USt-ID-Nr.: DE 218 804 519
 Handelsregister: HRB 82258
 AG Berlin-Charlottenburg

Human Tissue Microarray - iCon (internal control) TMA[®] Her-2

REF / Cat.-No.: 401 5201

iConTMA [®] Label			
●	●	●	●
1	2	3	4
Free Space for your tissue under investigation			

spot 1: positive score 3+
spot 2: positive score 2+
spot 3: positive score 1+
spot 4: negative score 0

tissue type:
mamma

Technical Information:

- Spot diameter: 1.5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded
- Slide Material: Standard: Superfrost[®] Plus.
- Tissue type validated by immunohistochemistry (antibody: HER-2neu (4b5) REF 790-4493 [Ventana]).

For Handling Instruction please see our iCon[®] TMA Product Sheet or contact our customer service.

Antibody / Marker description:

Her-2/neu (also known as ErbB-2) is a useful tool for the identification of overexpression of cerbB-2 oncoprotein in a variety of epithelial neoplasms, for example subsets of breast carcinomas, pulmonary adenocarcinomas, colorectal adenocarcinomas, pulmonary squamous and gastric adenocarcinomas, transitional cell carcinomas of the urinary bladder, and endometrial adenocarcinomas. It is a cell membrane surface-bound receptor tyrosine kinase and is normally involved in the signal transduction pathways leading to cell growth and differentiation. HER2 is thought to be an orphan receptor, with none of the EGF family of ligands able to activate it. However, ErbB receptors dimerise on ligand binding, and HER2 is the preferential dimerisation partner of other members of the ErbB family. The *HER2* gene is a proto-oncogene located at the long arm of human chromosome 17(17q11.2-q12). Scoring according to the guidelines of the American Society of Clinical Oncology and the College of American Pathologists (ASCO/CAP).

Literature:

- Olajoye MA (2001). "Update on HER-2 as a target for cancer therapy: intracellular signaling pathways of ErbB2/HER-2 and family members". *Breast Cancer Res* 3 (6): 385–389
- Hurtado A, Holmes KA, Geistlinger TR, Hutcheson IR, Nicholson RI, Brown M, Jiang J, Howat WJ, Ali S, Carroll JS (November 2008). "Regulation of ERBB2 by oestrogen receptor-PAX2 determines response to tamoxifen". *Nature*.
- XF Le, Franz Pruefer, Robert Bast. (2005). "HER2-targeting antibodies modulate the cyclin-dependent kinase inhibitor p27Kip1 via multiple signaling pathways". *Cell Cycle* 4 (1): 87–95.
- Ménard S, Casalini P, Campiglio M, et al. (2005). "Role of HER2/neu in tumor progression and therapy". *Cell. Mol. Life Sci.* 61 (23): 2965–78.

FOR INTERNAL QUALITY CONTROL. RESEARCH USE ONLY.

Intended for any human or animal in vitro research use only.

Version: 2.0 Stand: 09/20

 Data Sheet

Human Tissue Microarray

iCon (internal control) TMA[®]

CK7

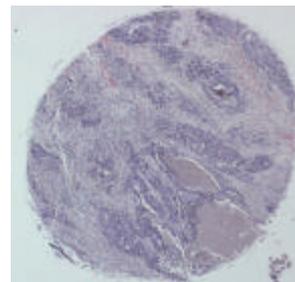
The antibody labels glandular and transitional epithelial cells and is a useful tool for the identification of adenocarcinomas of the lung, breast and endometrium, thyroid gland and ovary, as well as transitional cell (urothelial) carcinomas, and chromophobe renal cell carcinomas. Cells labelled by the antibody display a cytoplasmic staining pattern.

Cat.-No.: 401 5102

Lot: 001iC

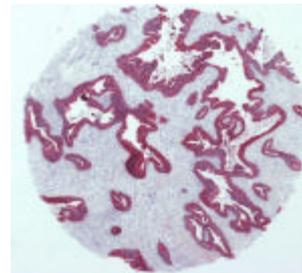
iConTMA [®] Label	
Free Space for your tissue under investigation	
●	●
positive	negative

Colon



negative

Pancreas



positive

Technical Information:

- Spot diameter: 2,0 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

In Vitro Laboratory Use Only

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Your expert in target validation



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 AG Berlin-Charlottenburg

Human Tissue Microarray

iCon (internal control) TMA[®]

BCL2

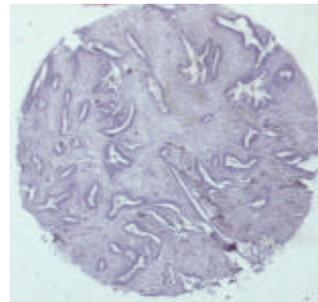
Positive results aid in the classification of follicular lymphomas and various diffuse lymphoproliferative diseases. The cellular staining pattern for this antibody is cytoplasmic.

Cat.-No.: 401 5103

Lot: 007iC

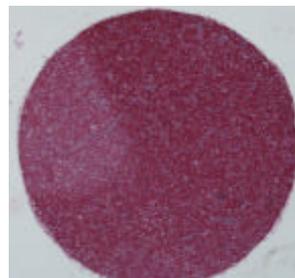
iConTMA [®] Label	
Free Space for your tissue under investigation	
●	●
positive	negative

Pancreas



negative

Non-Hodgkin-Lymphom



positive

Technical Information:

- Spot diameter: 2,0 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

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Human Tissue Microarray

iCon (internal control) TMA[®]

CD20

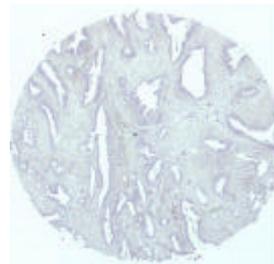
CD20 is used to identify qualitatively by light microscopy B-cells in normal and neoplastic tissues. Positive results aid in the classification of lymphomas as B-cell in origin.

Cat.-No.: 401 5104

Lot: 007iC

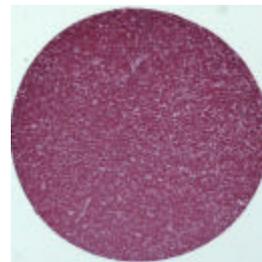
iConTMA [®] Label	
Free Space for your tissue under investigation	
●	●
positive	negative

Pancreas



negative

Non-Hodgkin-Lymphom



positive

Technical Information:

- Spot diameter: 2,0 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

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Your expert in target validation



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Human Tissue Microarray

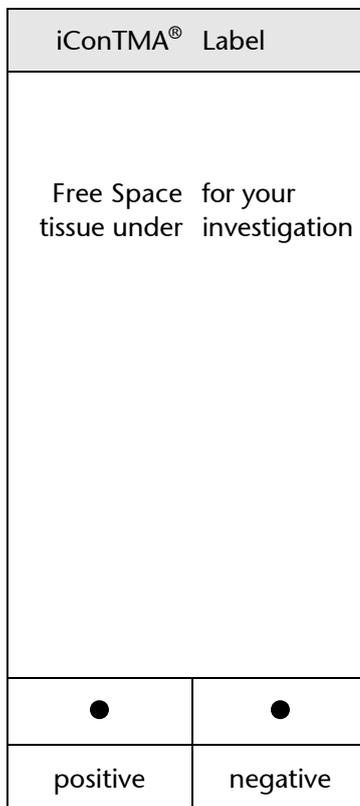
iCon (internal control) TMA®

CD117

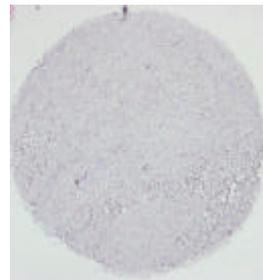
The antibody labels the transmembrane tyrosine kinase receptor CD117/c-kit, located in hematopoietic stem cells, melanocytes, mast cells, cajal cells, germ cells, basal cells of skin, and mammary ductal epithelial. The antibody is useful for the identification of several cancers expressing c-kit.

Cat.-No.: 401 5105

Lot: 002iC

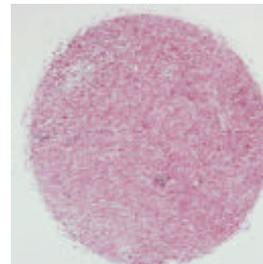


Neurinom/
Esophagus



negative

Stromacarcinom/
Stomach



positive

Technical Information:

- Spot diameter: 1,5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

In Vitro Laboratory Use Only

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Your expert in target validation



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Human Tissue Microarray

iCon (internal control) TMA[®]

S100

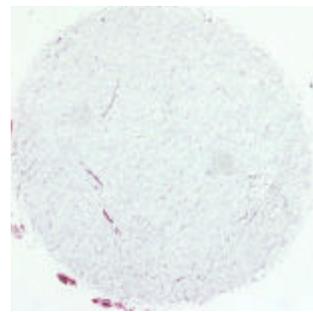
Positive results aid in the differential diagnosis of melanomas and nerve sheath tumors from carcinomas.

Cat.-No.: 401 5106

Lot: 002iC

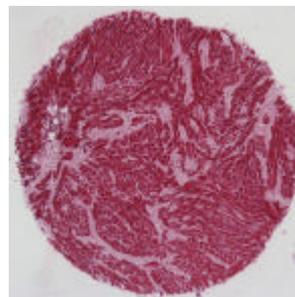
iConTMA [®] Label	
Free Space for your tissue under investigation	
●	●
positive	negative

Stromacarcinom/
Stomach



negative

Neurinom/
Esophagus



positive

Technical Information:

- Spot diameter: 1,5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

In Vitro Laboratory Use Only

Not intended for any human or animal diagnostic or therapeutic use.

Your expert in target validation



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Steuer-Nr.: 37/164/21415
 USt-ID-Nr.: DE 218 804 519
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 AG Berlin-Charlottenburg

Human Tissue Microarray

iCon (internal control) TMA[®]

p16

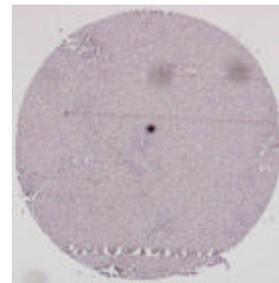
The p16 gene is a tumour suppressor gene that has been found to be functionally inactivated in many tumour entities, either by gene mutation or promotor hypermethylation. A strong nuclear and cytoplasmic overexpression of p16 protein has been reported for some cancer entities, including cervical cancer.

Cat.-No.: 401 5107

Lot: 003iC

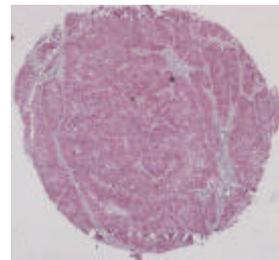
iConTMA [®] Label	
Free Space for your tissue under investigation	
●	●
positive	negative

Liver



negative

Cervix-CA



positive

Technical Information:

- Spot diameter: 1,5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

In Vitro Laboratory Use Only

Not intended for any human or animal diagnostic or therapeutic use.

Your expert in target validation



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Human Tissue Microarray

iCon (internal control) TMA[®]

p53

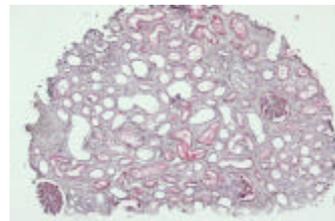
The antibody is used for the identification of p53 accumulation in human neoplasias. Cells labelled by the antibody generally display a nuclear staining pattern, but cytoplasmic staining has been reported in some cases.

Cat.-No.: 401 5108

Lot: 004iC

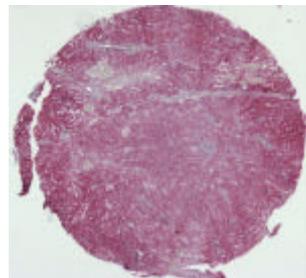
iConTMA [®] Label	
Free Space for your tissue under investigation	
●	●
positive	negative

Kidney



negative

Ovarial-CA



positive

Technical Information:

- Spot diameter: 1,5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

In Vitro Laboratory Use Only

Not intended for any human or animal diagnostic or therapeutic use.

Your expert in target validation



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 Bankverbindung: Weberbank
 IBAN: DE82 1012 0100 1003 0775 82
 BIC: WELADED1WBB

Steuer-Nr.: 37/164/21415
 USt-ID-Nr.: DE 218 804 519
 Handelsregister: HRB 82258
 AG Berlin-Charlottenburg

Human Tissue Microarray

iCon (internal control) TMA[®]

p63

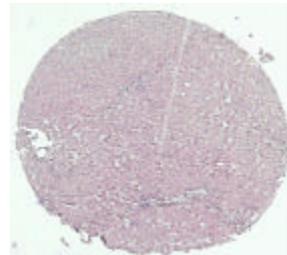
p63 is a homolog of p53, which is consistently expressed by basal /stem cells of stratified epithelium and myoepithelial cells of breast and salivary glands.

Cat.-No.: 401 5109

Lot: 005iC

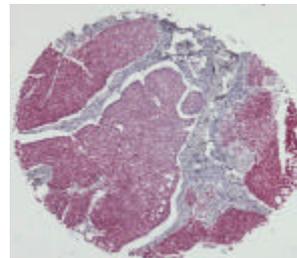
iConTMA [®] Label	
Free Space for your tissue under investigation	
●	●
positive	negative

Liver



negative

Larynx/ Epiglottis
SCC



positive

Technical Information:

- Spot diameter: 1,5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

In Vitro Laboratory Use Only

Not intended for any human or animal diagnostic or therapeutic use.

Your expert in target validation



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 Bankverbindung: Weberbank
 IBAN: DE82 1012 0100 1003 0775 82
 BIC: WELADED1WBB

Steuer-Nr.: 37/164/21415
 USt-ID-Nr.: DE 218 804 519
 Handelsregister: HRB 82258
 AG Berlin-Charlottenburg

Human Tissue Microarray

iCon (internal control) TMA[®]

ER

The antibody labels estrogen receptor positive cells and is useful in the assessment of estrogen receptor status in human breast carcinomas.

Cat.-No.: 401 5110

Lot: i 04-05

iConTMA [®] Label			
Free Space for your tissue under investigation		Kidney	negative
		Myometrium	
●	●		positive
positive	negative		

Technical Information:

- Spot diameter: 2,0 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

In Vitro Laboratory Use Only

Not intended for any human or animal diagnostic or therapeutic use.

Your expert in target validation



Vorstandsvorsitzender: Dr. Manrico Paulitschke
 Aufsichtsratsvorsitzender: Bernd Hartmann
 Bankverbindung: Weberbank
 IBAN: DE82 1012 0100 1003 0775 82
 BIC: WELADED1WBB

Steuer-Nr.: 37/164/21415
 USt-ID-Nr.: DE 218 804 519
 Handelsregister: HRB 82258
 AG Berlin-Charlottenburg

Human Tissue Microarray

iCon (internal control) TMA®

PgR

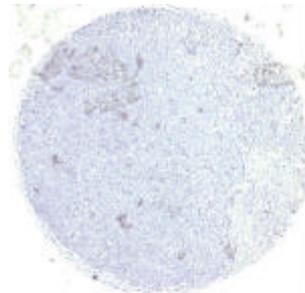
The antibody labels progesteron receptor positive cells and is useful in the assessment of progesteron receptor status in human breast carcinomas.

Cat.-No.: 401 5111

Lot: 006iC

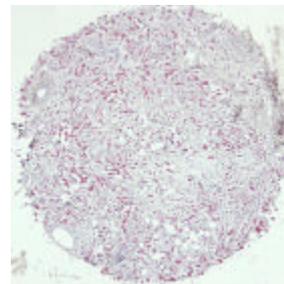
iConTMA® Label	
Free Space for your tissue under investigation	
●	●
positive	negative

ID-CA



negative

ID-CA



positive

Technical Information:

- Spot diameter: 1,5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

In Vitro Laboratory Use Only

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Human Tissue Microarray

iCon (internal control) TMA[®]

CK20

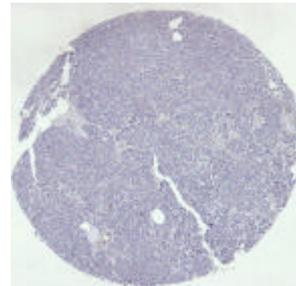
Cytokeratin 20 is valuable as a histodiagnostic tool for the subtyping of various carcinomas, including adenocarcinomas. It is an aid for a more precise classification of many epithelial tumors whose differential diagnosis is otherwise difficult. Positivity was seen in the majority of adenocarcinomas of colon, transitional-cell and Merkel-cell carcinomas and frequently also in adenocarcinoma of stomach.

Cat.-No.: 401 5112

Lot: 010iC

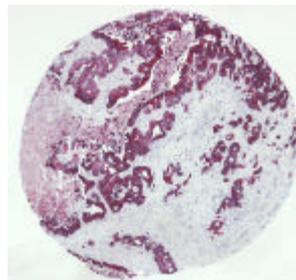
iConTMA [®] Label	
Free Space for your tissue under investigation	
●	●
positive	negative

Pancreas



negative

Liver



positive

Technical Information:

- Spot diameter: 1,5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

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Your expert in target validation



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Human Tissue Microarray

iCon (internal control) TMA[®]

CK5/6

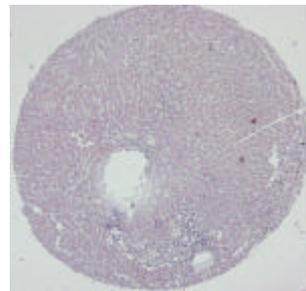
Antibodies to cytokeratin 5/6 have been found valuable for the distinction between low differentiated squamous cell carcinoma and adenocarcinoma. Anti-CK 5/6 has also been found useful in the differential diagnosis of atypical proliferations of the breast.

Cat.-No.: 401 5113

Lot: 015iC

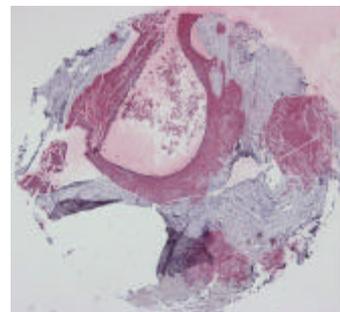
iConTMA [®] Label	
Free Space for your tissue under investigation	
●	●
positive	negative

Liver



negative

Basaliom



positive

Technical Information:

- Spot diameter: 1,5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

In Vitro Laboratory Use Only

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Human Tissue Microarray

iCon (internal control) TMA[®]

FLI

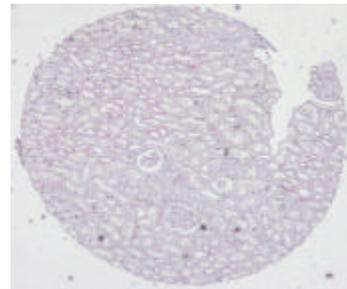
FLI-1 nuclear transcription factor has been proposed as a useful tool in the differential diagnosis of small round cell sarcomas. FLI-1 has been reported as the first nuclear marker of endothelial differentiation.

Cat.-No.: 401 5114

Lot: 011iC

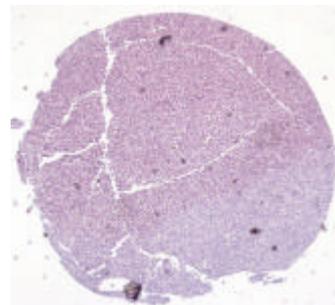
iConTMA [®] Label	
Free Space for your tissue under investigation	
●	●
positive	negative

Kidney



negative

Ewing-Sarkoms



positive

Technical Information:

- Spot diameter: 1,5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

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Your expert in target validation



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Human Tissue Microarray

iCon (internal control) TMA[®]

Actin

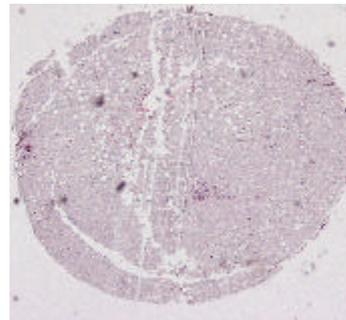
The antibody labels smooth muscle cells, myofibroblasts and myoepithelial cells, and it is a useful tool for the identification of leiomyomas, leiomyosarcomas and pleomorphic adenomas.

Cat.-No.: 401 5115

Lot: 012iC

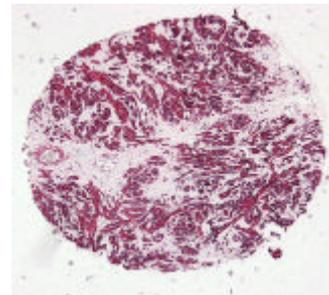
iConTMA [®] Label	
Free Space for your tissue under investigation	
●	●
positive	negative

Liver



negative

Leiomyom



positive

Technical Information:

- Spot diameter: 2,0 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

In Vitro Laboratory Use Only

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Your expert in target validation



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Human Tissue Microarray

iCon (internal control) TMA[®]

PSA

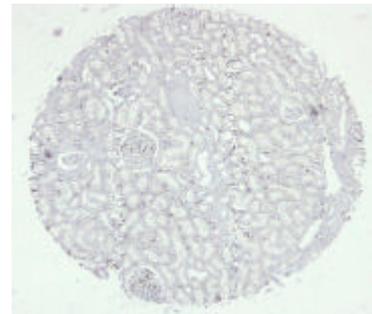
Monoclonal mouse anti-prostatic specific antigen (PSA), is intended use to identify qualitatively prostate specific antigen (PSA) positive cells in normal and neoplastic tissues. Positive results aid in the classification of neoplastic tissue, i.e. metastatic carcinomas of prostate origin.

Cat.-No.: 401 5116

Lot: 013iC

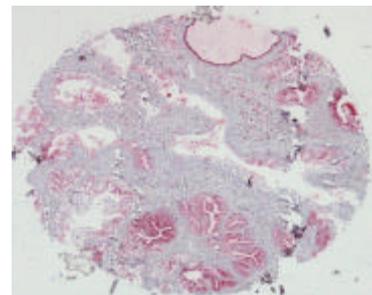
iConTMA [®] Label	
Free Space for your tissue under investigation	
●	●
positive	negative

Kidney



negative

Prostate adenoma



positive

Technical Information:

- Spot diameter: 1,5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

In Vitro Laboratory Use Only

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Your expert in target validation



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 USt-ID-Nr.: DE 218 804 519
 Handelsregister: HRB 82258
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Human Tissue Microarray

iCon (internal control) TMA®

EGFR

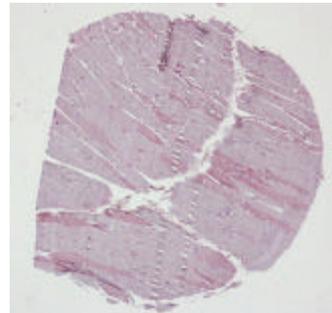
Monoclonal Mouse Anti-Human Epidermal Growth Factor Receptor (EGFR) labels subtypes of human carcinomas expressing high levels of EGFR . EGFR overexpression has been associated with cancer progression.

Cat.-No.: 401 5117

Lot: 014iC

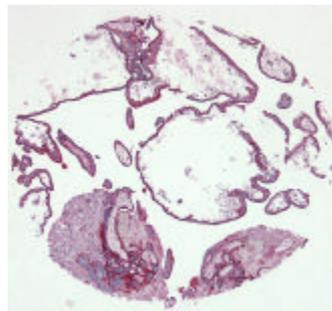
iConTMA® Label	
Free Space for your tissue under investigation	
●	●
positive	negative

Fasciated muscle



negative

Placenta



positive

Technical Information:

- Spot diameter: 1,5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded

Tissue type validated by immunohistochemistry

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 Handelsregister: HRB 82258
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Human Tissue Microarray - iCon (internal control) TMA[®] MUC-1

REF / Cat.-No.: 401 5222



Technical Information:

- Spot diameter: 1.5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded
- Slide Material: Standard: Superfrost[®] Plus.
- Tissue type validated by immunohistochemistry.
- For details, please contact our customer service.

For Handling Instruction please see our iCon[®] TMA Product Sheet or contact our customer service.

Spot 1: strong positive
Spot 2: moderate
Spot 3: moderate
Spot 4: negative

Antibody / Marker description:

This gene is a member of the mucin family and encodes a membrane bound, glycosylated phosphoprotein. The protein is anchored to the apical surface of many epithelia by a transmembrane domain (EMA-epithelial membrane antigen), with the degree of glycosylation varying with cell type. It also includes a 20 aa variable number tandem repeat (VNTR) domain, with the number of repeats varying from 20 to 120 in different individuals. The protein serves a protective function by binding to pathogens and also functions in a cell signaling capacity. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. Multiple alternatively spliced transcript variants that encode different isoforms of this gene have been reported, but the full-length nature of only some has been determined.

Literature:

- Peterson JA, Scallan CD, Ceriani RL, Hamosh M (2002). "Structural and functional aspects of three major glycoproteins of the human milk fat globule membrane". *Adv. Exp. Med. Biol.* **501**: 179-87
- Leroy X, Buisine MP, Leteurtre E, *et al.* (2007). "[MUC1 (EMA): A key molecule of carcinogenesis?]". *Annales de pathologie* **26** (4): 257-66.

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Intended for any human or animal in vitro diagnostic use.

Version: 2.0 Stand: 05/16

 **Product Data Sheet**

Human Tissue Microarray - iCon (internal control) TMA[®] ki-67 (MIB-1)

REF / Cat.-No.: 401 5223



Technical Information:

- Spot diameter: 1.5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded
- Slide Material: Standard: Superfrost[®] Plus.
- Tissue type validated by immunohistochemistry.
- For details, please contact our customer service.

For Handling Instruction please see our iCon[®] TMA Product Sheet or contact our customer service.

Antibody / Marker description:

The Ki-67 protein (also known as antigen identified by monoclonal antibody MIB-1) is a cellular marker for proliferation. It is strictly associated with cell proliferation. During the interphase, the Ki-67 antigen can be exclusively detected within the cell nucleus, whereas in mitosis most of the protein is relocated to the surface of the chromosomes. Ki-67 protein is present during all active phases of the cell cycle (G1, S, G2, and mitosis), but is absent from resting cells (G0). Ki-67 is an excellent marker to determine the growth fraction of a given cell population. The fraction of Ki-67-positive tumor cells (the *Ki-67 labelling index*) is often correlated with the clinical course of cancer. The best-studied examples in this context are carcinomas of the prostate and the breast. For these types of tumors, the prognostic value for survival and tumor recurrence have repeatedly been proven in uni- and multivariate analysis.

Literature:

- Scholzen T, Gerdes J (2000). "The Ki-67 protein: from the known and the unknown". *J. Cell. Physiol.* **182** (3): 311–22
- Gerdes J, Schwab U, Lemke H, Stein H (1983). "Production of a mouse monoclonal antibody reactive with a human nuclear antigen associated with cell proliferation". *Int. J. Cancer* **31** (1): 13–20.
- Bullwinkel J, Baron-Lühr B, Lüdemann A, Wohlenberg C, Gerdes J, Scholzen T (March 2006). "Ki-67 protein is associated with ribosomal RNA transcription in quiescent and proliferating cells". *J. Cell. Physiol.* **206** (3): 624–35.

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Intended for any human or animal in vitro diagnostic use.

Version: 2.0 Stand: 05/16

 **Product Data Sheet**

Human Tissue Microarray - iCon (internal control) TMA[®]

Survivin

REF / Cat.-No.: 401 5224



Technical Information:

- Spot diameter: 1.5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded
- Slide Material: Standard: Superfrost[®] Plus.
- Tissue type validated by immunohistochemistry.
- For details, please contact our customer service.

For Handling Instruction please see our iCon[®] TMA Product Sheet or contact our customer service.

Spot 1: positive
Spot 2: positive
Spot 3: negative
Spot 4: negative

Antibody / Marker description:

Survivin, also called Baculoviral IAP repeat-containing 5 (BIRC5), is a human gene that is part of the inhibitor of apoptosis family (IAP). The Survivin protein functions to inhibit caspase activation therefore leading to negative regulation of apoptosis or programmed cell death. This has been shown by disruption of Survivin induction pathways leading to increase in apoptosis and decrease in tumor growth. Survivin expression is also highly regulated by the cell cycle and is only expressed in the G2-M phase. It is known that Survivin localizes to the mitotic spindle by interaction with tubulin during mitosis and may play a contributing role in regulating mitosis.

Literature:

- Sah NK, Khan Z, Khan GJ, Bisen PS. (2006) Structural, functional and therapeutic biology of survivin. *Cancer Lett.* 244(2):164-71
- Olie RA, Simões-Wüst AP, Baumann B, Leech SH, Fabbro D, Stahel RA, Zangemeister-Wittke U. (2000). A novel antisense oligonucleotide targeting survivin expression induces apoptosis and sensitizes lung cancer cells to chemotherapy. *Cancer Research* 60(11):2805-9

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Version: 2.0 Stand: 05/16



Product Data Sheet

Human Tissue Microarray - iCon (internal control) TMA[®] HLA-1

REF / Cat.-No.: 401 5225



Technical Information:

- Spot diameter: 1.5 mm
- Fixation in 4% paraformaldehyde in PBS
- Paraffin embedded
- Slide Material: Standard: Superfrost[®] Plus.
- Tissue type validated by immunohistochemistry.
- For details, please contact our customer service.

For Handling Instruction please see our iCon[®] TMA Product Sheet or contact our customer service.

Antibody / Marker description:

The **human leukocyte antigen** system (HLA) is the name of the major histocompatibility complex (MHC) in humans. This group of genes resides on chromosome 6 and encodes cell-surface antigen-presenting proteins and many other genes. The major HLA antigens are essential elements in immune function. Different classes have different functions. The **class I** antigens (**A, B & C**) - present peptides from inside the cell (including viral peptides if present). **MHC class I** molecules are found on almost every nucleated cell of the body. Because MHC class I molecules present peptides derived from cytosolic proteins, the pathway of MHC class I presentation is often called the *cytosolic or endogenous pathway*. HLAs also have a role in disease defense, reproduction (may be involved in mate selection), cancer (may be protective or fail to protect), in autoimmunity (known to mediate many autoimmune diseases), as antigens (responsible for organ transplant rejection).

Literature:

- P. Parham and T. Ohta (1996). "Population Biology of Antigen Presentation by MHC class I Molecules.". *Science* **272**
- Erlich HA, Geraghty DE, Hansen JA, Hurley CK, Mach B, Mayr WR, Parham P, Petersdorf EW, Sasazuki T, Schreuder GM, Strominger JL, Svejgaard A, Terasaki PI, and Trowsdale J. (2005). "Nomenclature for factors of the HLA System, 2004.". *Tissue antigens* **65**: 301-369
- Noble J, Valdes A, Bugawan T, Apple R, Thomson G, Erlich H (2002). "The HLA class I A locus affects susceptibility to type 1 diabetes.". *Hum Immunol* **63** (8): 657-64

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Version: 2.0, Stand: 05/16

 **Product Data Sheet**

primary cell cultures

human endothelial cells	163
human chondrocytes	185
human osteoblasts	187
human fibroblasts	189
human keratinocytes	193
human melanocytes	197
human myocytes	199
human epithelial cells	215

Human umbilical vein endothelial cells, (HUVEC), vital

Cat.-No.: 111 0111 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HUVEC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh endothelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of8. HUVEC: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HUVEC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HUVEC:
Provitro's HUVEC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HUVEC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HUVEC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human umbilical vein endothelial cells (HUVEC), cryo

Cat.-No.: 121 0111 (500,000 cells / cryovial)

Maintenance of HUVEC

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HUVEC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HUVEC:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of endothelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's endothelial cell growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HUVEC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HUVEC: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HUVEC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HUVEC:

Provitro's HUVEC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HUVEC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HUVEC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

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Human umbilical artery endothelial cells, (HUAEC), vital

Cat.-No.: 111 0112 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HUAEC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh endothelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of8. HUAEC: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HUAEC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HUAEC:
Provitro's HUAEC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HUAEC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HUAEC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
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Human umbilical artery endothelial cells (HUAEC), cryo

Cat.-No.: 121 0112 (500,000 cells / cryovial)

Maintenance of HUAEC
Check the cryovial for signs of damage during dispatch. Since the cryopreserved HUAEC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).
Thawing of cryopreserved HUAEC:
<ol style="list-style-type: none">1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of endothelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's endothelial cell growth medium using a serological pipette. Check cell number and viability.4. Transfer the entire volume of HUAEC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. Feed the cells only with culture medium that has been warmed up.7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. For subculturing, use the reagents recommended in the accompanying analysis certificate, only.8. Recommended seeding density of HUAEC: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HUAEC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HUAEC:
Provitro's HUAEC cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HUAEC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HUAEC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human umbilical vein endothelial cells, pooled (HUVEC-p), vital

Cat.-No.: 111 0113 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HUVEC-p
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh endothelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of8. HUVEC-p: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HUVEC-P cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HUVEC-p:
Provitro's HUVEC-p cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HUVEC-P batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HUVEC-p cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human umbilical vein endothelial cells, pooled (HUVEC-p), cryo

Cat.-No.: 121 0113 (500,000 cells / cryovial)

Maintenance of HUVEC-p

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HUVEC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For
In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HUVEC-p:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of endothelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's endothelial cell growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HUVEC-p suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HUVEC-p: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HUVEC-p cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HUVEC-p:

Provitro's HUVEC-p cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HUVEC-p batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HUVEC-p cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human saphenous vein endothelial cells, (HSVEC), vital

Cat.-No.: 111 0121 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HSVEC

1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).
2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.
3. Prepare fresh medium (please observe provitro's medium product instructions).
4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh endothelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.
5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.
6. The cells are ready for sub-culturing after reaching 75 % confluence.
7. Recommended seeding density of HSVEC: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HSVEC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HSVEC:

Provitro's HSVEC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HSVEC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HSVEC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:
Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human saphenous vein endothelial cells (HSVEC), cryo

Cat.-No.: 121 0121 (500,000 cells / cryovial)

Maintenance of HSVEC

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HSVEC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HSVEC:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of endothelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's endothelial cell growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HSVEC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HSVEC: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HSVEC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HSVEC:

Provitro's HSVEC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HSVEC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HSVEC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human coronary artery endothelial cells, (HCAEC), vital

Cat.-No.: 111 0131 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HCAEC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh endothelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of8. HCAEC: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HCAEC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HCAEC:
Provitro's HCAEC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HCAEC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HCAEC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human coronary artery endothelial cells (HCAEC), cryo

Cat.-No.: 121 0131 (500,000 cells / cryovial)

Maintenance of HCAEC
Check the cryovial for signs of damage during dispatch. Since the cryopreserved HCAEC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).
Thawing of cryopreserved HCAEC:
<ol style="list-style-type: none">1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of endothelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's endothelial cell growth medium using a serological pipette. Check cell number and viability.4. Transfer the entire volume of HCAEC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. Feed the cells only with culture medium that has been warmed up.7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. For subculturing, use the reagents recommended in the accompanying analysis certificate, only.8. Recommended seeding density of HCAEC: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HCAEC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HCAEC:
Provitro's HCAEC cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HCAEC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HCAEC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human pulmonary artery endothelial cells, (HPAEC), vital

Cat.-No.: 111 0132 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HPAEC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh endothelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of8. HPAEC: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HPAEC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HPAEC:
Provitro's HPAEC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HPAEC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HPAEC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human pulmonary artery endothelial cells (HPAEC), cryo

Cat.-No.: 121 0132 (500,000 cells / cryovial)

Maintenance of HPAEC

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HPAEC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HPAEC:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of endothelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's endothelial cell growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HPAEC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HPAEC: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HPAEC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HPAEC:

Provitro's HPAEC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HPAEC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HPAEC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human aortic endothelial cells, (HAOEC), vital

Cat.-No.: 111 0151 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HAOEC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh endothelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of8. HAOEC: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HAOEC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HAOEC:
Provitro's HAOEC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HAOEC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HAOEC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human aortic endothelial cells (HAOEC), cryo

Cat.-No.: 121 0151 (500,000 cells / cryovial)

Maintenance of HAOEC

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HAOEC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HAOEC:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of endothelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's endothelial cell growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HAOEC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HAOEC: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HAOEC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HAOEC:

Provitro's HAOEC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HAOEC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HAOEC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human microvascular endothelial cells, foreskin (HMVEC-F), vital

Cat.-No.: 111 0141 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HMVEC-F

1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).
2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.
3. Prepare fresh medium (please observe provitro's medium product instructions).
4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh microvascular endothelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.
5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.
6. The cells are ready for sub-culturing after reaching 75 % confluence.
7. Recommended seeding density of
8. HMVEC-F: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HMVEC-F cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HMVEC-F:

Provitro's HMVEC-F cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HMVEC-F batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HMVEC-F cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:
Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human microvascular endothelial cells, foreskin (HMVEC-F), cryo

Cat.-No.: 121 0141 (500,000 cells / cryovial)

Maintenance of HMVEC-F

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HMVEC-F arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For
In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HMVEC-F:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of microvascular endothelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's microvascular endothelial cell growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HMVEC-F suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HMVEC-F: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HMVEC-F cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HMVEC-F:

Provitro's HMVEC-F cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HMVEC-F batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HMVEC-F cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human microvascular endothelial cells, dermis, juvenile (HMVEC-Dj), vital

Cat.-No.: 111 0142 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HMVEC-Dj

1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).
2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.
3. Prepare fresh medium (please observe provitro's medium product instructions).
4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh microvascular endothelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.
5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.
6. The cells are ready for sub-culturing after reaching 75 % confluence.
7. Recommended seeding density of
8. HMVEC-Dj: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HMVEC-Dj cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HMVEC-Dj:

Provitro's HMVEC-Dj cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HMVEC-Dj batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HMVEC-Dj cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:
Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human microvascular endothelial cells, dermis, juvenile (HMVEC-Dj), cryo Cat.-No.: 121 0142 (500,000 cells / cryovial)

Maintenance of HMVEC-Dj

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HMVEC-Dj arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For
In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HMVEC-Dj:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of microvascular endothelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's microvascular endothelial cell growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HMVEC-Dj suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of loosing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HMVEC-Dj: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HMVEC-Dj cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HMVEC-Dj:

Provitro's HMVEC-Dj cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HMVEC-Dj batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HMVEC-Dj cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human microvascular endothelial cells, dermis, adult (HMVEC-Da), vital

Cat.-No.: 111 0143 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HMVEC-Da

1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).
2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.
3. Prepare fresh medium (please observe provitro's medium product instructions).
4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh microvascular endothelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.
5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.
6. The cells are ready for sub-culturing after reaching 75 % confluence.
7. Recommended seeding density of
8. HMVEC-Da: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HMVEC-Da cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HMVEC-Da:

Provitro's HMVEC-Da cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HMVEC-Da batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HMVEC-Da cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:
Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human microvascular endothelial cells, dermis, adult

(HMVEC-Da), cryo Cat.-No.: 121 0143 (500,000 cells / cryovial)

Maintenance of HMVEC-Da

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HMVEC-Da arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HMVEC-Da:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of microvascular endothelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's microvascular endothelial cell growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HMVEC-Da suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HMVEC-Da: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HMVEC-Da cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HMVEC-Da:

Provitro's HMVEC-Da cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HMVEC-Da batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HMVEC-Da cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human microvascular endothelial cells, lung (HMVEC-L), vital

Cat.-No.: 111 0144 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HMVEC-L
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh microvascular endothelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of8. HMVEC-L: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HMVEC-L cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HMVEC-L:
Provitro's HMVEC-L cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HMVEC-L batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HMVEC-L cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human microvascular endothelial cells, lung

(HMVEC-L), cryo Cat.-No.: 121 0144 (500,000 cells / cryovial)

Maintenance of HMVEC-L

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HMVEC-L arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For
In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HMVEC-L:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of microvascular endothelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's microvascular endothelial cell growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HMVEC-L suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HMVEC-L: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HMVEC-L cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HMVEC-L:

Provitro's HMVEC-L cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HMVEC-L batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HMVEC-L cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human chondrocytes (HCHON), vital

Cat.-No.: 111 0211 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HCHON
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh chondrocyte growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HCHON: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HCHON cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HCHON:
Provitro's HCHON cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HCHON batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HCHON cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human chondrocytes (HCHON), cryo

Cat.-No.: 121 0211 (500,000 cells / cryovial)

Maintenance of HCHON
Check the cryovial for signs of damage during dispatch. Since the cryopreserved HCHON arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).
Thawing of cryopreserved HCHON:
<ol style="list-style-type: none"> 1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions. 2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of chondrocyte growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min. 3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's chondrocyte growth medium using a serological pipette. Check cell number and viability. 4. Transfer the entire volume of HCHON suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck. 5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place. 6. Change the chondrocyte growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. Feed the cells only with culture medium that has been warmed up. 7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. For subculturing, use the reagents recommended in the accompanying analysis certificate, only. 8. Recommended seeding density of HCHON: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HCHON cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HCHON:
Provitro's HCHON cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HCHON batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HCHON cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human osteoblasts (HOB), vital

Cat.-No.: 111 0311 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HOB
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh osteoblast growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HOB: > 2,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HOB cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HOB:
Provitro's HOB cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HOB batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HOB cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human osteoblasts (HOB), cryo

Cat.-No.: 121 0311 (500,000 cells / cryovial)

Maintenance of HOB
Check the cryovial for signs of damage during dispatch. Since the cryopreserved HOB arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).
Thawing of cryopreserved HOB:
<ol style="list-style-type: none"> 1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions. 2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of osteoblast growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min. 3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's osteoblast growth medium using a serological pipette. Check cell number and viability. 4. Transfer the entire volume of HOB suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck. 5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place. 6. Change the osteoblast growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. Feed the cells only with culture medium that has been warmed up. 7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. For subculturing, use the reagents recommended in the accompanying analysis certificate, only. 8. Recommended seeding density of HOB: > 2,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HOB cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HOB:
Provitro's HOB cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HOB batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HOB cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human fibroblasts, dermis (HFIB-D), vital

Cat.-No.: 111 0411 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HFIB-D
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh fibroblast growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HFIB-D: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HFIB-D cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HFIB-D:
Provitro's HFIB-D cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HFIB-D batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HFIB-D cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human fibroblasts, dermis (HFIB-D), cryo

Cat.-No.: 121 0411 (500,000 cells / cryovial)

Maintenance of HFIB-D

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HFIB-D arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HFIB-D:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of fibroblast growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's fibroblast growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HFIB-D suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the fibroblast growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HFIB-D: > 4,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HFIB-D cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HFIB-D:

Provitro's HFIB-D cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HFIB-D batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HFIB-D cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human fibroblasts, gingiva (HFIB-G), vital

Cat.-No.: 111 0412 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HFIB-G
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh fibroblast growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HFIB-G: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HFIB-G cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HFIB-G:
Provitro's HFIB-G cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HFIB-G batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HFIB-G cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human fibroblasts, gingiva (HFIB-G), cryo

Cat.-No.: 121 0412 (500,000 cells / cryovial)

Maintenance of HFIB-G

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HFIB-G arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HFIB-G:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of fibroblast growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's fibroblast growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HFIB-G suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the fibroblast growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HFIB-G: > 4,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HFIB-G cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HFIB-G:

Provitro's HFIB-G cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HFIB-G batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HFIB-G cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human keratinocytes, dermis (HKER-D), vital

Cat.-No.: 111 0512 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HKER-D

1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).
2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.
3. Prepare fresh medium (please observe provitro's medium product instructions).
4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh keratinocyte growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.
5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.
6. The cells are ready for sub-culturing after reaching 75 % confluence.
7. Recommended seeding density of HKER-D: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HKER-D cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HKER-D:

Provitro's HKER-D cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HKER-D batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HKER-D cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human keratinocytes, dermis (HKER-D), cryo

Cat.-No.: 121 0512 (500,000 cells / cryovial)

Maintenance of HKER-D

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HKER-D arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HKER-D:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of keratinocyte growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's keratinocyte growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HKER-D suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the keratinocyte growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HKER-D: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HKER-D cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HKER-D:

Provitro's HKER-D cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HKER-D batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HKER-D cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human keratinocytes, foreskin (HKER-F), vital

Cat.-No.: 111 0511 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HKER-F

1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).
2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.
3. Prepare fresh medium (please observe provitro's medium product instructions).
4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh keratinocyte growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.
5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.
6. The cells are ready for sub-culturing after reaching 75 % confluence.
7. Recommended seeding density of HKER-F: **> 6,000 cells per cm²**

Description:

Following provitro's standard operating procedures, the HKER-F cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HKER-F:

Provitro's HKER-F cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HKER-F batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HKER-F cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human keratinocytes, foreskin (HKER-F), cryo

Cat.-No.: 121 0511 (500,000 cells / cryovial)

Maintenance of HKER-F

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HKER-F arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HKER-F:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of keratinocyte growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's keratinocyte growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HKER-F suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the keratinocyte growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HKER-F: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HKER-F cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HKER-F:

Provitro's HKER-F cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HKER-F batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HKER-F cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human melanocytes, foreskin (HMEL-F), vital

Cat.-No.: 111 0522 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HMEL-F
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh melanocyte growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HMEL-F: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HMEL-F cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HMEL-F:
Provitro's HMEL-F cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HMEL-F batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HMEL-F cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human melanocytes, foreskin (HMEL-F), cryo

Cat.-No.: 121 0522 (500,000 cells / cryovial)

Maintenance of HMEL-F

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HMEL-F arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HMEL-F:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of melanocyte growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's melanocyte growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HMEL-F suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the melanocyte growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HMEL-F: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HMEL-F cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HMEL-F:

Provitro's HMEL-F cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HMEL-F batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HMEL-F cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human umbilical artery smooth muscle cells, (HUASMC), vital

Cat.-No.: 111 0611 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HUASMC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh smooth muscle cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HUASMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HUASMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HUASMC:
Provitro's HUASMC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HUASMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HUASMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human umbilical artery smooth muscle cells (HUASMC), cryo

Cat.-No.: 121 0611 (500,000 cells / cryovial)

Maintenance of HUASMC
Check the cryovial for signs of damage during dispatch. Since the cryopreserved HUASMC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).
Thawing of cryopreserved HUASMC:
<ol style="list-style-type: none"> 1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions. 2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of smooth muscle cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min. 3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's smooth muscle cell growth medium using a serological pipette. Check cell number and viability. 4. Transfer the entire volume of HUASMC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck. 5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place. 6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. Feed the cells only with culture medium that has been warmed up. 7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. For subculturing, use the reagents recommended in the accompanying analysis certificate, only. 8. Recommended seeding density of HUASMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HUASMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HUASMC:
Provitro's HUASMC cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HUASMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HUASMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human coronary artery smooth muscle cells, (HCASMC), vital

Cat.-No.: 111 0612 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HCASMC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh smooth muscle cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HCASMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HCASMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HCASMC:
Provitro's HCASMC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HCASMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HCASMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human coronary artery smooth muscle cells (HCASMC), cryo

Cat.-No.: 121 0612 (500,000 cells / cryovial)

Maintenance of HCASMC
Check the cryovial for signs of damage during dispatch. Since the cryopreserved HCASMC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).
Thawing of cryopreserved HCASMC:
<ol style="list-style-type: none"> 1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions. 2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of smooth muscle cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min. 3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's smooth muscle cell growth medium using a serological pipette. Check cell number and viability. 4. Transfer the entire volume of HCASMC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck. 5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place. 6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. Feed the cells only with culture medium that has been warmed up. 7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. For subculturing, use the reagents recommended in the accompanying analysis certificate, only. 8. Recommended seeding density of HCASMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HCASMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HCASMC:
Provitro's HCASMC cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HCASMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HCASMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human coronary artery smooth muscle cells, (HPASMC), vital

Cat.-No.: 111 0613 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HPASMC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh smooth muscle cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HPASMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HPASMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HPASMC:
Provitro's HPASMC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HPASMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HPASMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human pulmonary artery smooth muscle cells (HPASMC), cryo

Cat.-No.: 121 0613 (500,000 cells / cryovial)

Maintenance of HPASMC
Check the cryovial for signs of damage during dispatch. Since the cryopreserved HPASMC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).
Thawing of cryopreserved HPASMC:
<ol style="list-style-type: none"> 1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions. 2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of smooth muscle cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min. 3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's smooth muscle cell growth medium using a serological pipette. Check cell number and viability. 4. Transfer the entire volume of HPASMC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck. 5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place. 6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. Feed the cells only with culture medium that has been warmed up. 7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. For subculturing, use the reagents recommended in the accompanying analysis certificate, only. 8. Recommended seeding density of HPASMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HPASMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HPASMC:
Provitro's HPASMC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HPASMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HPASMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human aortic smooth muscle cells, (HAOSMC), vital

Cat.-No.: 111 0614 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HAOSMC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh smooth muscle cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HAOSMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HAOSMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HAOSMC:
Provitro's HAOSMC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HAOSMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HAOSMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human aortic smooth muscle cells (HAOSMC), cryo

Cat.-No.: 121 0614 (500,000 cells / cryovial)

Maintenance of HAOSMC
Check the cryovial for signs of damage during dispatch. Since the cryopreserved HAOSMC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).
Thawing of cryopreserved HAOSMC:
<ol style="list-style-type: none"> 1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions. 2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of smooth muscle cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min. 3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's smooth muscle cell growth medium using a serological pipette. Check cell number and viability. 4. Transfer the entire volume of HAOSMC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck. 5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place. 6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. Feed the cells only with culture medium that has been warmed up. 7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. For subculturing, use the reagents recommended in the accompanying analysis certificate, only. 8. Recommended seeding density of HAOSMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HAOSMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HAOSMC:
Provitro's HAOSMC cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HAOSMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HAOSMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human urothelial smooth muscle cells, (HUSMC), vital

Cat.-No.: 111 0631 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HUSMC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh smooth muscle cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HUSMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HUSMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HUSMC:
Provitro's HUSMC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HUSMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HUSMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human urothelial smooth muscle cells (HUSMC), cryo

Cat.-No.: 121 0631 (500,000 cells / cryovial)

Maintenance of HUSMC
Check the cryovial for signs of damage during dispatch. Since the cryopreserved HUSMC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).
Thawing of cryopreserved HUSMC:
<ol style="list-style-type: none"> 1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions. 2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of smooth muscle cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min. 3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's smooth muscle cell growth medium using a serological pipette. Check cell number and viability. 4. Transfer the entire volume of HUSMC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck. 5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place. 6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. Feed the cells only with culture medium that has been warmed up. 7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. For subculturing, use the reagents recommended in the accompanying analysis certificate, only. 8. Recommended seeding density of HUSMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HUSMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HUSMC:
Provitro's HUSMC cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HUSMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HUSMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human bronchial smooth muscle cells, (HBSMC), vital

Cat.-No.: 111 0632 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HBSMC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh smooth muscle cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HBSMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HBSMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HBSMC:
Provitro's HBSMC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HBSMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HBSMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human bronchial smooth muscle cells (HBSMC), cryo

Cat.-No.: 121 0632 (500,000 cells / cryovial)

Maintenance of HBSMC
Check the cryovial for signs of damage during dispatch. Since the cryopreserved HBSMC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).
Thawing of cryopreserved HBSMC:
<ol style="list-style-type: none"> 1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions. 2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of smooth muscle cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min. 3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's smooth muscle cell growth medium using a serological pipette. Check cell number and viability. 4. Transfer the entire volume of HBSMC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck. 5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place. 6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. Feed the cells only with culture medium that has been warmed up. 7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. For subculturing, use the reagents recommended in the accompanying analysis certificate, only. 8. Recommended seeding density of HBSMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HBSMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HBSMC:
Provitro's HBSMC cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HBSMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HBSMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human tracheal smooth muscle cells, (HTSMC), vital

Cat.-No.: 111 0633 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HTSMC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh smooth muscle cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HTSMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HTSMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HTSMC:
Provitro's HTSMC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HTSMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HTSMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human tracheal smooth muscle cells (HTSMC), cryo

Cat.-No.: 121 0633 (500,000 cells / cryovial)

Maintenance of HTSMC
Check the cryovial for signs of damage during dispatch. Since the cryopreserved HTSMC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).
Thawing of cryopreserved HTSMC:
<ol style="list-style-type: none"> 1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions. 2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of smooth muscle cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min. 3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's smooth muscle cell growth medium using a serological pipette. Check cell number and viability. 4. Transfer the entire volume of HTSMC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck. 5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place. 6. Change the muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. Feed the cells only with culture medium that has been warmed up. 7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. For subculturing, use the reagents recommended in the accompanying analysis certificate, only. 8. Recommended seeding density of HTSMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HTSMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HTSMC:
Provitro's HTSMC cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HTSMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HTSMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human skeletal muscle cells, (HSKMC), vital

Cat.-No.: 111 0691 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HSKMC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh skeletal muscle cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HSKMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HSKMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HSKMC:
Provitro's HSKMC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HSKMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HSKMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human skeletal muscle cells (HSKMC), cryo

Cat.-No.: 121 0691 (500,000 cells / cryovial)

Maintenance of HSKMC
Check the cryovial for signs of damage during dispatch. Since the cryopreserved HSKMC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).
Thawing of cryopreserved HSKMC:
<ol style="list-style-type: none">1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of skeletal muscle cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's skeletal muscle cell growth medium using a serological pipette. Check cell number and viability.4. Transfer the entire volume of HSKMC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.6. Change the skeletal muscle cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. Feed the cells only with culture medium that has been warmed up.7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. For subculturing, use the reagents recommended in the accompanying analysis certificate, only.8. Recommended seeding density of HSKMC: > 4,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HSKMC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HSKMC:
Provitro's HSKMC cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HSKMC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HSKMC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human nasal epithelial cells, (HNEPC), vital

Cat.-No.: 111 0711 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HNEPC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh epithelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HNEPC: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HNEPC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HNEPC:
Provitro's HNEPC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HNEPC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HNEPC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human nasal epithelial cells (HNEPC), cryo

Cat.-No.: 121 0711 (500,000 cells / cryovial)

Maintenance of HNEPC

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HNEPC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HNEPC:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of epithelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's epithelial cell growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HNEPC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the epithelial cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HNEPC: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HNEPC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HNEPC:

Provitro's HNEPC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HNEPC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HNEPC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human bronchial epithelial cells, (HBEPC), vital

Cat.-No.: 111 0712 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HBEPC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh epithelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HBEPC: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HBEPC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HBEPC:
Provitro's HBEPC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HBEPC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HBEPC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human bronchial epithelial cells (HBEPC), cryo

Cat.-No.: 121 0712 (500,000 cells / cryovial)

Maintenance of HBEPC

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HBEPC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HBEPC:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of epithelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's epithelial cell growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HBEPC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the epithelial cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HBEPC: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HBEPC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HBEPC:

Provitro's HBEPC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HBEPC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HBEPC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human tracheal epithelial cells, (HTEPC), vital

Cat.-No.: 111 0713 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HTEPC

1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).
2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.
3. Prepare fresh medium (please observe provitro's medium product instructions).
4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh epithelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.
5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.
6. The cells are ready for sub-culturing after reaching 75 % confluence.
7. Recommended seeding density of HTEPC: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HTEPC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HTEPC:

Provitro's HTEPC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HTEPC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HTEPC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human tracheal epithelial cells (HTEPC), cryo

Cat.-No.: 121 0713 (500,000 cells / cryovial)

Maintenance of HTEPC

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HTEPC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HTEPC:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of epithelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's epithelial cell growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HTEPC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the epithelial cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HTEPC: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HTEPC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HTEPC:

Provitro's HTEPC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HTEPC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HTEPC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human small airway epithelial cells, (HSAEPC), vital

Cat.-No.: 111 0714 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HSAEPC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh epithelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HSAEPC: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HSAEPC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HSAEPC:
Provitro's HSAEPC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HSAEPC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HSAEPC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human small airway epithelial cells (HSAEPC), cryo

Cat.-No.: 121 0714 (500,000 cells / cryovial)

Maintenance of HSAEPC
Check the cryovial for signs of damage during dispatch. Since the cryopreserved HSAEPC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).
Thawing of cryopreserved HSAEPC:
<ol style="list-style-type: none"> 1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions. 2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of epithelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min. 3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's epithelial cell growth medium using a serological pipette. Check cell number and viability. 4. Transfer the entire volume of HSAEPC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck. 5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place. 6. Change the epithelial cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. Feed the cells only with culture medium that has been warmed up. 7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. For subculturing, use the reagents recommended in the accompanying analysis certificate, only. 8. Recommended seeding density of HSAEPC: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HSAEPC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HSAEPC:
Provitro's HSAEPC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HSAEPC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HSAEPC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human urothelial epithelial cells, (HUEPC), vital

Cat.-No.: 111 0721 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HTEPC
<ol style="list-style-type: none">1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.3. Prepare fresh medium (please observe provitro's medium product instructions).4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh epithelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.6. The cells are ready for sub-culturing after reaching 75 % confluence.7. Recommended seeding density of HTEPC: > 6,000 cells per cm²
Description:
Following provitro's standard operating procedures, the HTEPC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.
Proliferative capacity of HTEPC:
Provitro's HTEPC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited <i>in-vitro</i> lifespan. All HTEPC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.
Quality control:
All HTEPC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.
Warning note:
Concerning use of biological material: Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.
In vitro laboratory use only.
Not intended for any human or animal diagnostic or therapeutic use.

Human urothelial epithelial cells (HUEPC), cryo

Cat.-No.: 121 0721 (500,000 cells / cryovial)

Maintenance of HUEPC

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HUEPC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HUEPC:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of epithelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's epithelial cell growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HUEPC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the epithelial cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HUEPC: **> 6,000 cells per cm²**

Description:

Following provitro's standard operating procedures, the HUEPC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HUEPC:

Provitro's HUEPC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HUEPC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HUEPC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human mammary epithelial cells, (HMEPC), vital

Cat.-No.: 111 0731 (subconfluent proliferating cells / 25 cm² flask)

Maintenance of HMEPC

1. Check the proliferating culture for signs of damage during dispatch (e.g. cell layer detached from the culture flask, atypical morphology). Under the microscope, many cell "islands" should be visible on the flask bottom. Determine the cell density by estimating the "confluence" in %. Note that there are always some loose cells (e.g. during mitosis).
2. Incubate the sealed flask 4 hours in a steam saturated incubator with 5 % (V/V) CO₂ to reach the incubator's temperature of 37°C.
3. Prepare fresh medium (please observe provitro's medium product instructions).
4. Having transferred the flask into a laminar flow cabinet, decontaminate the tube lid with 70 % ethanol and wait until the alcohol has evaporated before opening the tube. Do not touch the tube opening with fingers. Remove the medium using a pipette without touching the cell monolayer. Replace the transport medium with 5 ml of pre-warmed fresh epithelial cell growth medium. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck before closing it with the screw lid.
5. Place the filled cell culture flask in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lid on the culture flask by half a turn only to allow gas exchanges to take place.
6. The cells are ready for sub-culturing after reaching 75 % confluence.
7. Recommended seeding density of HMEPC: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HMEPC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HMEPC:

Provitro's HMEPC cultures are derived from original tissue (in vivo state) using careful methods. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HMEPC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HMEPC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Human mammary epithelial cells (HMEPC), cryo

Cat.-No.: 121 0731 (500,000 cells / cryovial)

Maintenance of HMEPC

Check the cryovial for signs of damage during dispatch. Since the cryopreserved HMEPC arrived on dry ice, they have to be transferred immediately to a deep freezer (-80°C) for a storage time of up to one week or to be thawed according to the procedure stated below. For

In the case of longer storage, transfer the vial directly to liquid nitrogen (-196°C).

Thawing of cryopreserved HMEPC:

1. Transfer the cryovial straight to a water bath with a temperature of 37°C. To achieve a rapid thawing, gently stir the cryovial repeatedly. Few seconds before thawing is completed transfer the vial into a laminar flow hood. Decontaminate the outer surface of the cryovial, and proceed immediately with the following steps under sterile conditions.
2. Within in a laminar flow hood, transfer aseptically the thawed cell suspension into a 15 ml centrifuge tube. Add 10 ml of epithelial cell growth medium, seal the tube with its screw cap, and centrifuge it at 250xg for 5 min.
3. Remove aseptically the supernatant, and re-suspend the cell pellet in 10 ml of provitro's epithelial cell growth medium using a serological pipette. **Check cell number and viability.**
4. Transfer the entire volume of HMEPC suspension into two 25 cm² culture flasks (5 ml each). The advantage of using two 25 cm² flasks instead of one larger flask is that it helps to reduce the risk of losing all cells. So, if you experience difficulties in passaging the first 25 cm² flask, there is still another flask left for further use. In order to prevent contamination make sure that there are no traces of medium left on the inner/outer part of the flask neck.
5. Place the cell culture flasks in an incubator at 37°C, steam saturated and 5 % (V/V) CO₂. Close the screw lids on each culture flask by half a turn only to allow gas exchanges to take place.
6. Change the epithelial cell growth medium after the first 24 hrs to remove unattached cells, then every 48-72hrs. **Feed the cells only with culture medium that has been warmed up.**
7. The cells are ready for sub-culturing having reached a confluence of 75 %. If the cell layer is allowed to grow too dense they will suffer irreversible contact inhibition leading to ceased proliferation. **For subculturing, use the reagents recommended in the accompanying analysis certificate, only.**
8. Recommended seeding density of HMEPC: > 6,000 cells per cm²

Description:

Following provitro's standard operating procedures, the HMEPC cultures are isolated from human tissue, then transferred into a primary cell culture, and finally aliquoted and frozen.

Proliferative capacity of HMEPC:

Provitro's HMEPC cultures are derived from original tissue (in vivo state) using careful methods,. They are not transformed or mutated and have a limited *in-vitro* lifespan. All HMEPC batches are tested by provitro for their proliferative capacity using provitro's culture reagents as outlined in the accompanying certificate of analysis.

Quality control:

All HMEPC cultures from provitro are subject to comprehensive quality tests, summarized in the accompanying certificate of analysis.

Warning note:

Concerning use of biological material:

Provitro's primary cell cultures are of human or animal origin, and no known test procedures can ensure the total absence of infectious agents. All products should therefore be handled following safety precautions as if they were infectious.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

culture media

endothelial cell growth media	228
chondrocyte cell growth media	254
osteoblast cell growth media	260
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Endothelial cell proliferation medium, basal

Cat.-Nr.: 200 0001

contains of:

Basal media	Supplements
200 0001 500 ml Endothelial cell proliferation medium, basal	-

Maintenance of endothelial cell proliferation medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro endothelial cell proliferation medium, complete is a sterile liquid culture medium for culturing endothelial cells. The medium is delivered a basal medium and is suitable for culturing Provitro human endothelial cells **after adding optional available essential supplements**. The final formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented endothelial cell proliferation medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's endothelial cell proliferation h medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Endothelial cell proliferation medium, phenol red free, basal

Cat.-Nr.: 200 0001-prf

contains of:

Basal media	Supplements
2000001-prf 500 ml Endothelial cell proliferation medium, basal, phenol red free	-

Maintenance of endothelial cell proliferation medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro endothelial cell proliferation medium, complete is a sterile liquid culture medium for culturing endothelial cells. The medium is delivered a basal medium and is suitable for culturing Provitro human endothelial cells **after adding optional available essential supplements**. The final formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented endothelial cell proliferation medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's endothelial cell proliferation h medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Endothelial cell proliferation medium, FCS

Cat.-Nr.: 201 0001

contains of:

Basal media		Supplements	
200 0001	500 ml Endothelial cell proliferation medium, basal	218 0001	Endothelial cell proliferation medium Supplement-Mix, FCS
		236 0350	Antibiotics (optional)

Maintenance of endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro endothelial cell proliferation medium is a sterile liquid culture medium for culturing endothelial cells. The medium is delivered as a basal medium and is suitable for culturing Provitro human endothelial cells after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented endothelial cell proliferation medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's endothelial cell proliferation medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Endothelial cell proliferation medium, phenol red free, FCS

Cat.-Nr.: 201 0001-prf

contains of:

Basal media	Supplements
200 0001-prf 500 ml Endothelial cell proliferation medium, basal, phenol red free	218 0001 Endothelial cell proliferation medium Supplement-Mix, FCS 236 0350 Antibiotics (optional)

Maintenance of endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro endothelial cell proliferation medium is a sterile liquid culture medium for culturing endothelial cells. The medium is delivered as a basal medium and is suitable for culturing Provitro human endothelial cells after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented endothelial cell proliferation medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's endothelial cell proliferation medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Endothelial cell proliferation medium, FCS-kit

Cat.-Nr.: 211 0001

contains of:

Basal media		Supplements	
200 0001	500 ml Endothelial cell proliferation medium, basal	222 1000	L-Glutamine
		231 3500	FCS (foetal calf serum)
		226 0500	Heparin
		244 0500	human rec. EGF (epidermal growth factor)
		245 0250	human rec. bFGF (basic fibroblast growth factor)
		241 0025	human rec. VEGF
		242 0500	human rec. Long R3 IGF-1
		223 0005	Ascorbic acid
		224 0010	Hydrocortisone
		236 0350	Antibiotics (optional)

Maintenance of endothelial cell proliferation medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro endothelial cell proliferation medium is a sterile liquid culture medium for culturing endothelial cells. The medium is delivered as a basal medium and is suitable for culturing Provitro human endothelial cells after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented endothelial cell proliferation medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's endothelial cell proliferation medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Endothelial cell proliferation medium, phenol red free

FCS-kit-prf

Cat.-Nr.: 211 0001-prf

contains of:

Basal media	Supplements
2000001-prf 500 ml Endothelial cell proliferation medium, basal, phenol red free	222 1000 L-Glutamine 231 3500 FCS (foetal calf serum) 226 0500 Heparin 244 0500 human rec. EGF (epidermal growth factor) 245 0250 human rec. bFGF (basic fibroblast growth factor) 241 0025 human rec. VEGF 242 0500 human rec. Long R3 IGF-1 223 0005 Ascorbic acid 224 0010 Hydrocortisone 236 0350 Antibiotics (optional)

Maintenance of endothelial cell proliferation medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro endothelial cell proliferation medium is a sterile liquid culture medium for culturing endothelial cells. The medium is delivered as a basal medium and is suitable for culturing Provitro human endothelial cells after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented endothelial cell proliferation medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's endothelial cell proliferation medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Endothelial cell growth medium, FCS, advanced

Cat.-Nr.: 201 1101

contains of:

Basal media		Supplements	
200 0101	500 ml Endothelial cell growth medium, basal	218 1101	Endothelial cell growth Supplement-Mix, FCS, advanced
		236 0350	Antibiotics (optional)

Maintenance of endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro endothelial cell growth medium, advanced is a sterile liquid culture medium for culturing endothelial cells. The medium is delivered as a basal medium and is suitable for culturing Provitro human endothelial cells after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Endothelial cell growth medium, FCS, advanced, phenol red free

Cat.-Nr.: 201 1101-prf

contains of:

Basal media		Supplements	
2000101-prf	500 ml Endothelial cell growth medium, basal, phenol red free	218 1101	Endothelial cell growth Supplement-Mix, FCS, advanced
		236 0350	Antibiotics (optional)

Maintenance of endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Proviro endothelial cell growth medium, advanced is a sterile liquid culture medium for culturing endothelial cells. The medium is delivered as a basal medium and is suitable for culturing Proviro human endothelial cells after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Proviro's endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Endothelial cell growth medium, FCS-kit, advanced

Cat.-Nr.: 211 1101

contains of:

Basal media		Supplements	
200 0101	500 ml Endothelial cell growth medium, basal	222 1000	L-Glutamine
		231 1000	FCS (foetal calf serum)
		226 1125	Heparin
		244 0250	human rec. EGF (epidermal growth factor)
		245 0500	human rec. bFGF (basic fibroblast growth factor)
		241 0025	human rec. VEGF
		242 1000	human rec. Long R3 IGF-1
		223 0005	Ascorbic acid
		224 0010	Hydrocortisone
		236 0350	Antibiotics (optional)

Maintenance of endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro endothelial cell growth medium, advanced is a sterile liquid culture medium for culturing endothelial cells. The medium is delivered as a basal medium and is suitable for culturing Provitro human endothelial cells after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Endothelial cell growth medium, FCS-kit, advanced, prf

Cat.-Nr.: 211 1101-prf (phenol red free)

contains of:

Basal media	Supplements
2000101-prf 500 ml Endothelial cell growth medium, basal, phenol red free	222 1000 L-Glutamine 231 1000 FCS (foetal calf serum) 226 1125 Heparin 244 0250 human rec. EGF (epidermal growth factor) 245 0500 human rec. bFGF (basic fibroblast growth factor) 241 0025 human rec. VEGF 242 1000 human rec. Long R3 IGF-1 223 0005 Ascorbic acid 224 0010 Hydrocortisone 236 0350 Antibiotics (optional)

Maintenance of endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro endothelial cell growth medium, advanced is a sterile liquid culture medium for culturing endothelial cells. The medium is delivered as a basal medium and is suitable for culturing Provitro human endothelial cells after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Endothelial cell growth medium, HuS-kit, advanced

Cat.-Nr.: 212 1101

contains of:

Basal media	Supplements
200 0101 500 ml Endothelial cell growth medium, basal	222 1000 L-Glutamine
	232 1000 HuS (human serum AB)
	226 1125 Heparin
	244 0250 human rec. EGF (epidermal growth factor)
	245 0500 human rec. bFGF (basic fibroblast growth factor)
	241 0025 human rec. VEGF
	242 1000 human rec. Long R3 IGF-1
	223 0005 Ascorbic acid
	224 0010 Hydrocortisone
	236 0350 Antibiotics (optional)

Maintenance of endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro endothelial cell growth medium, advanced is a sterile liquid culture medium for culturing endothelial cells. The medium is delivered as a basal medium and is suitable for culturing Provitro human endothelial cells after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Endothelial cell growth medium, HuS-kit, advanced, phenol red free

Cat.-Nr.: 212 1101-prf

contains of:

Basal media		Supplements	
2000101-prf	500 ml Endothelial cell growth medium, basal, phenol red free	222 1000	L-Glutamine
		232 1000	HuS (human serum AB)
		226 1125	Heparin
		244 0250	human rec. EGF (epidermal growth factor)
		245 0500	human rec. bFGF (basic fibroblast growth factor)
		241 0025	human rec. VEGF
		242 1000	human rec. Long R3 IGF-1
		223 0005	Ascorbic acid
		224 0010	Hydrocortisone
		236 0350	Antibiotics (optional)

Maintenance of endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro endothelial cell growth medium, advanced is a sterile liquid culture medium for culturing endothelial cells. The medium is delivered as a basal medium and is suitable for culturing Provitro human endothelial cells after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Microvascular endothelial cell growth medium, basal

Cat.-Nr.: 200 0102

contains of:

Basal media	Supplements
200 0102 500 ml Microvascular endothelial cell growth medium, basal	-

Maintenance of microvascular endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro microvascular endothelial cell growth medium is a sterile liquid culture medium for culturing human microvascular endothelial cells (HMVEC). The medium is delivered as a basal medium and is suitable for culturing HMVEC **after adding the optional available essential supplement kit components**. The final formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented microvascular endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Microvascular endothelial cell growth medium, basal, phenol red free

Cat.-Nr.: 200 0102-prf

contains of:

Basal media		Supplements
200 0102-prf	500 ml Microvascular endothelial cell growth medium, basal, phenol red free	-

Maintenance of microvascular endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro microvascular endothelial cell growth medium is a sterile liquid culture medium for culturing human microvascular endothelial cells (HMVEC). The medium is delivered as a basal medium and is suitable for culturing HMVEC **after adding the optional available essential supplement kit components**. The final formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented microvascular endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Microvascular endothelial cell growth medium, FCS

Cat.-Nr.: 201 0102 (old Cat-Nr.: 201 0112)

contains of:

Basal media		Supplements	
200 0102	500 ml Microvascular endothelial cell growth medium, basal	218 0102	Microvascular endothelial cell growth Supplement-Mix, FCS
		236 0350	Antibiotics (optional)

Maintenance of microvasclar endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro microvascular endothelial cell growth medium, complete is a sterile liquid culture medium for culturing microvascular endothelial cells (HMVEC). The medium is delivered as a basal medium and is suitable for culturing Provitro HMVEC after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented microvascular endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Microvascular endothelial cell growth medium, phenol red free, FCS

Cat.-Nr.: 201 0102-prf

contains of:

Basal media		Supplements	
2000102-prf	500 ml Microvascular endothelial cell growth medium, basal, phenol red free	218 0102	Microvascular endothelial cell growth Supplement-Mix, FCS
		236 0350	Antibiotics (optional)

Maintenance of microvasclar endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro microvascular endothelial cell growth medium, complete is a sterile liquid culture medium for culturing microvascular endothelial cells (HMVEC). The medium is delivered as a basal medium and is suitable for culturing Provitro HMVEC after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented microvascular endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Microvascular endothelial cell growth medium, FCS-kit

Cat.-Nr.: 211 0102

contains of:

Basal media		Supplements	
200 0102	500 ml Microvascular endothelial cell growth medium, basal	222 1000	L-Glutamine
		231 2500	FCS (foetal calf serum)
		233 0600	ECGS/H (endothelial cell growth supplement / Heparin)
		243 0050	human rec. EGF (epidermal growth factor)
		224 0050	Hydrocortisone
		236 0350	Antibiotics (optional)

Maintenance of microvascular endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**

Characteristics:

The Provitro microvascular endothelial cell growth medium is a sterile liquid culture medium for culturing human microvascular endothelial cells (HMVEC). The medium is delivered as a basal medium and is suitable for culturing Provitro HMVEC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented microvascular endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Microvascular endothelial cell growth medium, phenol red free, FCS-kit

Cat.-Nr.: 211 0102-prf

contains of:

Basal media	Supplements
2000102-prf 500 ml Microvascular endothelial cell growth medium, basal, phenol red free	222 1000 L-Glutamine 231 2500 FCS (foetal calf serum) 233 0600 ECGS/H (endothelial cell growth supplement / Heparin) 243 0050 human rec. EGF (epidermal growth factor) 224 0050 Hydrocortisone 236 0350 Antibiotics (optional)

Maintenance of microvascular endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**

Characteristics:

The Provitro microvascular endothelial cell growth medium is a sterile liquid culture medium for culturing human microvascular endothelial cells (HMVEC). The medium is delivered as a basal medium and is suitable for culturing Provitro HMVEC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented microvascular endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Microvascular endothelial cell growth medium, HuS-kit

Cat.-Nr.: 212 0102

Basal media		Supplements	
200 0102	500 ml Microvascular endothelial cell growth medium, basal	222 1000	L-Glutamine
		232 2500	HuS (human serum AB)
		233 0600	ECGS/H (endothelial cell growth supplement / Heparin)
		243 0050	human rec. EGF (epidermal growth factor)
		224 0050	Hydrocortisone
		236 0350	Antibiotics (optional)

Maintenance of microvascular endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**

Characteristics:

The Provitro microvascular endothelial cell growth medium is a sterile liquid culture medium for culturing human microvascular endothelial cells (HMVEC). The medium is delivered as a basal medium and is suitable for culturing Provitro HMVEC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented microvascular endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Microvascular endothelial cell growth medium, phenol red free, HuS-kit

Cat.-Nr.: 212 0102-prf

Basal media	Supplements
2000102-prf 500 ml Microvascular endothelial cell growth medium, basal, phenol red free	222 1000 L-Glutamine 232 2500 HuS (human serum AB) 233 0600 ECGS/H (endothelial cell growth supplement / Heparin) 243 0050 human rec. EGF (epidermal growth factor) 224 0050 Hydrocortisone 236 0350 Antibiotics (optional)

Maintenance of microvascular endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**

Characteristics:

The Provitro microvascular endothelial cell growth medium is a sterile liquid culture medium for culturing human microvascular endothelial cells (HMVEC). The medium is delivered as a basal medium and is suitable for culturing Provitro HMVEC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented microvascular endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Microvascular endothelial cell growth medium, FCS, advanced

Cat.-Nr.: 201 1102

contains of:

Basal media		Supplements	
200 0102	500 ml Microvascular endothelial cell growth medium, basal	218 1102	Microvascular endothelial cell growth Supplement-Mix, FCS, advanced
		236 0350	Antibiotics (optional)

Maintenance of microvascular endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro microvascular endothelial cell growth medium, advanced is a sterile liquid culture medium for culturing human microvascular endothelial cells (HMVEC). The medium is delivered as a basal medium and is suitable for culturing Provitro HMVEC after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented microvascular endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Microvascular endothelial cell growth medium, FCS, advanced, phenol red free

Cat.-Nr.: 201 1102-prf

contains of:

Basal media		Supplements	
2000102-prf	500 ml Microvascular endothelial cell growth medium, basal, phenol red free	218 1102	Microvascular endothelial cell growth Supplement-Mix, FCS, advanced
		236 0350	Antibiotics (optional)

Maintenance of microvascular endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro microvascular endothelial cell growth medium, advanced is a sterile liquid culture medium for culturing human microvascular endothelial cells (HMVEC). The medium is delivered as a basal medium and is suitable for culturing Provitro HMVEC after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented microvascular endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Microvascular endothelial cell growth medium, FCS-kit, advanced

Cat.-Nr.: 211 1102

contains of:

Basal media		Supplements	
200 0102	500 ml Microvascular endothelial cell growth medium, basal	222 1000	L-Glutamine
		231 2500	FCS (foetal calf serum)
		244 0250	human rec. EGF (epidermal growth factor)
		245 0500	human rec. bFGF (basic fibroblast growth factor)
		242 1000	human rec. Long R3 IGF-1
		223 0005	Ascorbic acid
		241 0025	human rec. VEGF
		224 0010	Hydrocortisone
		236 0350	Antibiotics (optional)

Maintenance of microvascular endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro microvascular endothelial cell growth medium, advanced is a sterile liquid culture medium for culturing microvascular endothelial cells (HMVEC). The medium is delivered as a basal medium and is suitable for culturing Provitro HMVEC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented microvascular endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Microvascular endothelial cell growth medium, advanced, phenol red free, FCS-kit

Cat.-Nr.: 211 1102-prf

contains of:

Basal media	Supplements
200 0102-prf 500 ml Microvascular endothelial cell growth medium, basal, phenol red free	222 1000 L-Glutamine 231 2500 FCS (foetal calf serum) 244 0250 human rec. EGF (epidermal growth factor) 245 0500 human rec. bFGF (basic fibroblast growth factor) 242 1000 human rec. Long R3 IGF-1 223 0005 Ascorbic acid 241 0025 human rec. VEGF 224 0010 Hydrocortisone 236 0350 Antibiotics (optional)

Maintenance of microvascular endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro microvascular endothelial cell growth medium, advanced is a sterile liquid culture medium for culturing microvascular endothelial cells (HMVEC). The medium is delivered as a basal medium and is suitable for culturing Provitro HMVEC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented microvascular endothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Microvascular endothelial cell growth medium, HuS-kit, advanced

Cat.-Nr.: 212 1102

contains of:

Basal media		Supplements	
200 0102	500 ml Microvascular endothelial cell growth medium, basal	222 1000	L-Glutamine
		232 2500	HuS (human serum AB)
		244 0250	human rec. EGF (epidermal growth factor)
		245 0500	human rec. bFGF (basic fibroblast growth factor)
		242 1000	human rec. Long R3 IGF-1
		223 0005	Ascorbic acid
		241 0025	human rec. VEGF
		224 0010	Hydrocortisone
		236 0350	Antibiotics (optional)

Maintenance of microvascular endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **2°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**

Characteristics:

The Provitro microvascular endothelial cell growth medium is a sterile liquid culture medium for culturing human microvascular endothelial cells (HMVEC). The medium is delivered as a basal medium and is suitable for culturing Provitro HMVEC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented microvascular endothelial cell growth medium can be stored in the dark at 2°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Microvascular endothelial cell growth medium, HuS-kit, advanced, phenol red free

Cat.-Nr.: 212 1102-prf

contains of:

Basal media	Supplements
2000102-prf 500 ml Microvascular endothelial cell growth medium, basal, phenol red free	222 1000 L-Glutamine 232 2500 HuS (human serum AB) 244 0250 human rec. EGF (epidermal growth factor) 245 0500 human rec. bFGF (basic fibroblast growth factor) 242 1000 human rec. Long R3 IGF-1 223 0005 Ascorbic acid 241 0025 human rec. VEGF 224 0010 Hydrocortisone 236 0350 Antibiotics (optional)

Maintenance of microvascular endothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **2°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**

Characteristics:

The Provitro microvascular endothelial cell growth medium is a sterile liquid culture medium for culturing human microvascular endothelial cells (HMVEC). The medium is delivered as a basal medium and is suitable for culturing Provitro HMVEC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented microvascular endothelial cell growth medium can be stored in the dark at 2°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Chondrocyte growth medium, basal

Cat.-Nr.: 200 0201

contains of:

Basal media	Supplements
200 0201 500 ml Chondrocyte growth medium, basal	-

Maintenance of chondrocyte growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro chondrocyte growth medium is a sterile liquid culture medium for culturing human and bovine chondrocytes (HCHON / BCHON). The medium is delivered as a basal medium and is suitable for culturing HCHON **after adding optional available essential supplement components**. The final formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented chondrocyte growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's chondrocyte growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HCHON proliferating characteristics. The cells cultured in chondrocyte growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Chondrocyte growth medium, basal, phenol red free

Cat.-Nr.: 200 0201-prf

contains of:

Basal media	Supplements
2000201-prf 500 ml Chondrocyte growth medium, basal, phenol red free	-

Maintenance of chondrocyte growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro chondrocyte growth medium is a sterile liquid culture medium for culturing human and bovine chondrocytes (HCHON / BCHON). The medium is delivered as a basal medium and is suitable for culturing HCHON **after adding optional available essential supplement components**. The final formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented chondrocyte growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's chondrocyte growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HCHON proliferating characteristics. The cells cultured in chondrocyte growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Chondrocyte growth medium, basal, advanced

Cat.-Nr.: 200 1201

contains of:

Basal media	Supplements
200 1201 500 ml Chondrocyte growth medium, basal, advanced	-

Maintenance of chondrocyte growth medium, advanced:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro chondrocyte growth medium, advanced is a sterile liquid culture medium for culturing human and bovine chondrocytes (HCHON / BCHON). The medium is delivered as a basal medium and is suitable for culturing HCHON **after adding optional available essential supplements**. The final formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented chondrocyte growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's chondrocyte growth medium, advanced is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HCHON proliferating characteristics. The cells cultured in chondrocyte growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Chondrocyte growth medium, FCS

Cat.-Nr.: 201 0201

contains of:

Basal media		Supplements	
200 0201	500 ml Chondrocyte growth medium, basal	218 0201	Chondrocyte growth Supplement-Mix, FCS
		236 0350	Antibiotics (optional)

Maintenance of chondrocyte growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro chondrocyte growth medium is a sterile liquid culture medium for culturing human and bovine chondrocytes (HCHON / BCHON). The medium is delivered as a basal medium and is suitable for culturing Provitro HCHON after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented chondrocyte growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's chondrocyte growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HCHON proliferating characteristics. The cells cultured in chondrocyte growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Chondrocyte growth medium, FCS, phenol red free

Cat.-Nr.: 201 0201-prf

contains of:

Basal media	Supplements
2000201-prf 500 ml Chondrocyte growth medium, basal	218 0201 Chondrocyte growth Supplement-Mix, FCS 236 0350 Antibiotics (optional)

Maintenance of chondrocyte growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro chondrocyte growth medium is a sterile liquid culture medium for culturing human and bovine chondrocytes (HCHON / BCHON). The medium is delivered as a basal medium and is suitable for culturing Provitro HCHON after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented chondrocyte growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's chondrocyte growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HCHON proliferating characteristics. The cells cultured in chondrocyte growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Chondrocyte growth medium, FCS, advanced

Cat.-Nr.: 201 1201

contains of:

Basal media		Supplements	
200 1201	500 ml Chondrocyte growth medium, basal, advanced	218 1201	Chondrocyte growth Supplement-Mix, FCS, advanced
		236 0350	Antibiotics (optional)

Maintenance of chondrocyte growth medium, advanced:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro chondrocyte growth medium, advanced is a sterile liquid culture medium for culturing human and bovine chondrocytes (HCHON / BCHON). The medium is delivered as a basal medium and is suitable for culturing Provitro HCHON after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented chondrocyte growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's chondrocyte growth medium, advanced is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HCHON proliferating characteristics. The cells cultured in chondrocyte growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Osteoblast growth medium, basal

Cat.-Nr.: 200 0301

contains of:

Basal media	Supplements
200 0301 500 ml Osteoblast growth medium, basal	-

Take care: basal medium, requires further supplementation for cell culture of human osteoblasts !

Maintenance of osteoblast growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro osteoblast growth medium is a sterile liquid culture medium for culturing human osteoblasts (HOB). The medium is delivered as a basal medium **w/o Ca, Mg** and is suitable for culturing HOB **after adding the optional available essential supplement kit components**. The final formulation is optimized for initial seeding of 2,000 cells / cm² up to confluence (up to first cell contact). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented osteoblast growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's osteoblast growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HOB proliferating characteristics. The cells cultured in osteoblast growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Osteoblast growth medium, basal, advanced

Cat.-Nr.: 200 1301

contains of:

Basal media	Supplements
200 1301 500 ml Osteoblast growth medium, basal, advanced	-

Maintenance of osteoblast growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provistro osteoblast growth medium is a sterile liquid culture medium for culturing human osteoblasts (HOB). The medium is delivered as a basal medium **with Ca, Mg** and is suitable for culturing HOB **after adding the optional available essential supplement kit components**. The final formulation is optimized for initial seeding of 2,000 cells / cm² up to confluence (up to first cell contact). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented osteoblast growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provistro's osteoblast growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HOB proliferating characteristics. The cells cultured in osteoblast growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Osteoblast growth medium, FCS

Cat.-Nr.: 201 0301

contains of:

Basal media		Supplements	
200 0301	500 ml Osteoblast growth medium, basal	218 0301	Osteoblast growth Supplement-Mix, FCS
		236 0350	Antibiotics (optional)

Maintenance of osteoblast growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro osteoblast growth medium is a sterile liquid culture medium for culturing human osteoblasts (HOB). The medium is delivered as a basal medium **w/o Ca, Mg** and is suitable for culturing Provitro HOB after adding the supplement mix components. The formulation is optimized for initial seeding of 2,000 cells / cm² up to confluence (up to first cell contact). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented osteoblast growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's osteoblast growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HOB proliferating characteristics. The cells cultured in osteoblast growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Osteoblast growth medium, FCS, advanced

Cat.-Nr.: 201 1301

contains of:

Basal media		Supplements	
200 1301	500 ml Osteoblast growth medium, basal advanced Differentiation Formulation	218 0301	Osteoblast growth Supplement-Mix, FCS advanced
		236 0350	Antibiotics (optional)

Maintenance of osteoblast growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro osteoblast growth medium is a sterile liquid culture medium for culturing human osteoblasts (HOB). The medium is delivered as a basal medium and is suitable for culturing Provitro HOB after adding the supplement mix components. The formulation is optimized for initial seeding of 2,000 cells / cm² up to confluence (up to first cell contact). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented osteoblast growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's osteoblast growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HOB proliferating characteristics. The cells cultured in osteoblast growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Fibroblast growth medium, basal

Cat.-Nr.: 200 0401

contains of:

Basal media	Supplements
200 0401 500 ml Fibroblast growth medium, basal	-

Maintenance of fibroblast growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro fibroblast growth medium is a sterile liquid culture medium for culturing human fibroblasts (HFIB). The medium is delivered as a basal medium and is suitable for culturing HFIB **after adding optional available essential supplement mix components**. The final formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented fibroblast growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's fibroblast growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HFIB proliferating characteristics. The cells cultured in fibroblast growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Fibroblast growth medium, basal, phenol red free

Cat.-Nr.: 200 0401 - prf

contains of:

Basal media		Supplements
200 0401-prf	500 ml Fibroblast growth medium, basal, phenol red free	-

Maintenance of fibroblast growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro fibroblast growth medium is a sterile liquid culture medium for culturing human fibroblasts (HFIB). The medium is delivered as a basal medium and is suitable for culturing HFIB **after adding optional available essential supplement mix components**. The final formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (**approx. 90 %**). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented fibroblast growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's fibroblast growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HFIB proliferating characteristics. The cells cultured in fibroblast growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Fibroblast growth medium, FCS

Cat.-Nr.: 201 0401

contains of:

Basal media		Supplements	
200 0401	500 ml Fibroblast growth medium, basal	218 0401	Fibroblast growth Supplement-Mix, FCS
		236 0350	Antibiotics (optional)

Maintenance of fibroblast growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provistro fibroblast growth medium is a sterile liquid culture medium for culturing human fibroblasts (HFIB). The medium is delivered as a basal medium and is suitable for culturing Provistro HFIB after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented fibroblast growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provistro's fibroblast growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HFIB proliferating characteristics. The cells cultured in fibroblast growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Fibroblast growth medium, phenol red free, FCS

Cat.-Nr.: 201 0401-prf

contains of:

Basal media	Supplements
2000401-prf 500 ml Fibroblast growth medium, basal, phenol red free	218 0401 Fibroblast growth Supplement-Mix, FCS
	236 0350 Antibiotics (optional)

Maintenance of fibroblast growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provistro fibroblast growth medium is a sterile liquid culture medium for culturing human fibroblasts (HFIB). The medium is delivered as a basal medium and is suitable for culturing Provistro HFIB after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented fibroblast growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provistro's fibroblast growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HFIB proliferating characteristics. The cells cultured in fibroblast growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Defined fibroblast maintenance medium, serum-free

Cat.-Nr.: 203 0401

contains of:

Basal media		Supplements	
200 0403	500 ml Defined fibroblast maintenance medium, basal	219 0401	Fibroblast maintenance Supplement-Mix, serum-free
		236 0350	Antibiotics (optional)

Maintenance of defined fibroblast maintenance medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro defined fibroblast maintenance medium is a sterile liquid culture medium w/o serum for **maintenance culturing** of human fibroblasts (HFIB). The medium is delivered as a basal medium and is suitable for culturing Provitro HFIB after adding the supplement mix components. The formulation is optimized for initial seeding of 6,000 cells / cm². Feeder-layer, matrix substrates or other substances are not necessary. **We recommend using the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented defined fibroblast maintenance medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's defined fibroblast maintenance medium is thoroughly tested after each production. All components are tested in a stringent biological assay. The cells cultured in defined fibroblast maintenance medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Defined fibroblast maintenance medium, serum-free kit

Cat.-Nr.: 213 0401

contains of:

Basal media		Supplements	
200 0403	500 ml Defined fibroblast maintenance medium, basal	222 1000	L-Glutamine
		245 0050	human rec. bFGF (basic fibroblast growth factor)
		246 0250	human rec. Insulin
		236 0350	Antibiotics (optional)

Maintenance of defined fibroblast maintenance medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provistro defined fibroblast maintenance medium is a sterile liquid culture medium w/o serum for **maintenance culturing** of human fibroblasts (HFIB). The medium is delivered as a basal medium and is suitable for culturing Provistro HFIB after adding the supplement kit components. The formulation is optimized for initial seeding of 6,000 cells / cm². Feeder-layer, matrix substrates or other substances are not necessary. **We recommend using the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented defined fibroblast maintenance medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provistro's defined fibroblast maintenance medium is thoroughly tested after each production. All components are tested in a stringent biological assay. The cells cultured in defined fibroblast maintenance medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Keratinocyte growth medium, basal

Cat.-Nr.: 200 0501

contains of:

Basal media	Supplements
200 0501 500 ml Keratinocyte growth medium, basal	-

Maintenance of keratinocyte growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro keratinocyte growth medium is a sterile liquid culture medium w/o serum for culturing human keratinocytes (HKER). The medium is delivered as a basal medium and is suitable for culturing HKER **after adding the optional available essential supplement kit components**. The final formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 75 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented keratinocyte growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's keratinocyte growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HKER proliferating characteristics. The cells cultured in keratinocyte growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Keratinocyte growth medium, serum-free

Cat.-Nr.: 203 0501

contains of:

Basal media		Supplements	
200 0501	500 ml Keratinocyte growth medium, basal	238 0505	Keratinocyte growth medium Supplement Mix, serum free

Maintenance of keratinocyte growth medium:

Place the bottle of **basal medium** in the dark at **2°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro keratinocyte growth medium is a sterile liquid culture medium w/o serum for culturing human keratinocytes (HKER). The medium is delivered as a basal medium and is suitable for culturing Provitro HKER after adding the supplement mix. The formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 75 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented keratinocyte growth medium can be stored in the dark at 2°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's keratinocyte growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HKER proliferating characteristics. The cells cultured in keratinocyte growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Melanocyte growth medium, basal

Cat.-Nr.: 200 0502

contains of:

Basal media	Supplements
200 0502 500 ml Melanocyte growth medium, basal	-

Maintenance of melanocyte growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro melanocyte growth medium is a sterile liquid culture medium w/o serum for culturing human melanocytes (HMEL). The medium is delivered as a basal medium and is suitable for culturing HMEL **after adding the optional available essential supplement kit components**. The final formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 75 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented melanocyte growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's melanocyte growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMEL proliferating characteristics. The cells cultured in melanocyte growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Melanocyte growth medium, serum-free

Cat.-Nr.: 203 0502

contains of:

Basal media		Supplements	
200 0502	500 ml Melanocyte growth medium, basal	219 0502	Melanocyte growth Supplement-Mix, serum-free

Maintenance of melanocyte growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro melanocyte growth medium is a sterile liquid culture medium w/o serum for culturing human melanocytes (HMEI). The medium is delivered as a basal medium and is suitable for culturing Provitro HMEI after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 75 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented melanocyte growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's melanocyte growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMEI proliferating characteristics. The cells cultured in melanocyte growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Melanocyte growth medium, serum-free kit

Cat.-Nr.: 213 0502

contains of:

Basal media		Supplements	
200 0502	500 ml Melanocyte growth medium, basal	222 1000	L-Glutamine
		234 2600	BPE
		245 0050	human rec. bFGF (basic fibroblast growth factor)
		224 0025	Hydrocortisone
		246 0250	human rec. Insulin
		235 0500	PMA
		236 0350	Antibiotics (optional)

Maintenance of melanocyte growth medium:

Place the bottle of **basal medium** in the dark at 4°C to 8°C immediately after delivery. Store the **supplements** at -20°C.

Characteristics:

The Provitro melanocyte growth medium is a sterile liquid culture medium w/o serum for culturing human melanocytes (HMEL). The medium is delivered as a basal medium and is suitable for culturing Provitro HMEL after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 75 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented melanocyte growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's melanocyte growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMEL proliferating characteristics. The cells cultured in melanocyte growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Smooth muscle cell growth medium, basal

Cat.-Nr.: 200 0601

contains of:

Basal media	Supplements
200 0601 500 ml Smooth muscle cell growth medium, basal	-

Maintenance of smooth muscle cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro smooth muscle cell growth medium is a sterile liquid culture medium for culturing human smooth muscle cells (HSMC). The medium is delivered as a basal medium and is suitable for culturing HSMC **after adding the optional available essential supplement kit components**. The final formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented smooth muscle cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's smooth muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSMC proliferating characteristics. The cells cultured in smooth muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Smooth muscle cell growth medium, FCS

Cat.-Nr.: 201 0601

contains of:

Basal media		Supplements	
200 0601	500 ml Smooth muscle cell growth medium, basal	218 0601	Smooth muscle cell growth Supplement-Mix, FCS
		236 0350	Antibiotics (optional)

Maintenance of smooth muscle cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro smooth muscle cell growth medium is a sterile liquid culture medium for culturing human smooth muscle cells (HSMC). The medium is delivered as a basal medium and is suitable for culturing Provitro HSMC after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented smooth muscle cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's smooth muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSMC proliferating characteristics. The cells cultured in smooth muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Smooth muscle cell growth medium, FCS-kit

Cat.-Nr.: 211 0601

contains of:

Basal media		Supplements	
200 0601	500 ml Smooth muscle cell growth medium, basal	222 1000	L-Glutamine
		231 2500	FCS (foetal calf serum)
		243 0025	human rec. EGF (epidermal growth factor)
		245 0100	human rec. bFGF (basic fibroblast growth factor)
		246 0250	human rec. Insulin
		236 0350	Antibiotics (optional)

Maintenance of smooth muscle cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro smooth muscle cell growth medium is a sterile liquid culture medium for culturing human smooth muscle cells (HSMC). The medium is delivered as a basal medium and is suitable for culturing Provitro HSMC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented smooth muscle cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's smooth muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSMC proliferating characteristics. The cells cultured in smooth muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Smooth muscle cell growth medium, HuS-kit

Cat.-Nr.: 212 0601

contains of:

Basal media		Supplements	
200 0601	500 ml Smooth muscle cell growth medium, basal	222 1000	L-Glutamine
		232 2500	HuS (human serum AB)
		243 0025	human rec. EGF (epidermal growth factor)
		245 0100	human rec. bFGF (basic fibroblast growth factor)
		246 0250	human rec. Insulin
		236 0350	Antibiotics (optional)

Maintenance of smooth muscle cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro smooth muscle cell growth medium is a sterile liquid culture medium for culturing human smooth muscle cells (HSMC). The medium is delivered as a basal medium and is suitable for culturing Provitro HSMC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented smooth muscle cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's smooth muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSMC proliferating characteristics. The cells cultured in smooth muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Smooth muscle cell growth medium, basal, phenol red free (prf)

Cat.-Nr.: 200 0601 - prf

Maintenance of smooth muscle cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro smooth muscle cell growth medium is a sterile liquid culture medium for culturing human smooth muscle cells (HSMC). The medium is delivered as a basal medium and is suitable for culturing HSMC after adding the optional available essential supplement kit components (Cat.No. 215 0601 or 2016 0601). The final formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use any antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented smooth muscle cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's smooth muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSMC proliferating characteristics. The cells cultured in smooth muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Smooth muscle cell growth medium, phenol red free (prf) FCS

Cat.-Nr.: 201 0601 -prf

contains of:

Basal media		Supplements	
200 0601 -prf	500 ml Smooth muscle cell growth medium, phenol red free (prf),basal	218 0601	Smooth muscle cell growth Supplement-Mix, FCS
		236 0350	Antibiotics (optional)

Maintenance of smooth muscle cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro smooth muscle cell growth medium is a sterile liquid culture medium for culturing human smooth muscle cells (HSMC). The medium is delivered as a basal medium (prf) and is suitable for culturing Provitro HSMC after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented smooth muscle cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's smooth muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSMC proliferating characteristics. The cells cultured in smooth muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Smooth muscle cell growth medium, phenol red free, FCS-kit

Cat.-Nr.: 211 0601-prf

contains of:

Basal media	Supplements
2000601-prf 500 ml Smooth muscle cell growth medium, basal, phenol red free	222 1000 L-Glutamine 231 2500 FCS (foetal calf serum) 243 0025 human rec. EGF (epidermal growth factor) 245 0100 human rec. bFGF (basic fibroblast growth factor) 246 0250 human rec. Insulin 236 0350 Antibiotics (optional)

Maintenance of smooth muscle cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro smooth muscle cell growth medium is a sterile liquid culture medium for culturing human smooth muscle cells (HSMC). The medium is delivered as a basal medium and is suitable for culturing Provitro HSMC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented smooth muscle cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's smooth muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSMC proliferating characteristics. The cells cultured in smooth muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Smooth muscle cell growth medium, phenol red free, HuS-kit

Cat.-Nr.: 212 0601-prf

contains of:

Basal media	Supplements
2000601-prf 500 ml Smooth muscle cell growth medium, basal, phenol red free	222 1000 L-Glutamine 232 2500 HuS (human serum AB) 243 0025 human rec. EGF (epidermal growth factor) 245 0100 human rec. bFGF (basic fibroblast growth factor) 246 0250 human rec. Insulin 236 0350 Antibiotics (optional)

Maintenance of smooth muscle cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro smooth muscle cell growth medium is a sterile liquid culture medium for culturing human smooth muscle cells (HSMC). The medium is delivered as a basal medium and is suitable for culturing Provitro HSMC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented smooth muscle cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's smooth muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSMC proliferating characteristics. The cells cultured in smooth muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Skeletal muscle cell growth medium, basal

Cat.-Nr.: 200 0602

contains of:

Basal media	Supplements
200 0602 500 ml Skeletal muscle cell growth medium, basal	-

Maintenance of skeletal muscle cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro skeletal muscle cell growth medium is a sterile liquid culture medium for culturing human skeletal muscle cells (HSKMC). The medium is delivered as a basal medium and is suitable for culturing HSKMC **after adding the optional available essential supplement kit components**. The final formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented skeletal muscle cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's skeletal muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSKMC proliferating characteristics. The cells cultured in skeletal muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Skeletal muscle cell growth medium, FCS

Cat.-Nr.: 201 0602

contains of:

Basal media		Supplements	
200 0602	500 ml Skeletal muscle cell growth medium, basal	218 0602	Skeletal muscle cell growth Supplement-Mix, FCS
		236 0350	Antibiotics (optional)

Maintenance of skeletal muscle cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro skeletal muscle cell growth medium is a sterile liquid culture medium for culturing human skeletal muscle cells (HSKMC). The medium is delivered as a basal medium and is suitable for culturing Provitro HSKMC after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented skeletal muscle cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's skeletal muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSKMC proliferating characteristics. The cells cultured in skeletal muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Skeletal muscle cell growth medium, FCS-kit

Cat.-Nr.: 211 0602

contains of:

Basal media		Supplements	
200 0602	500 ml Skeletal muscle cell growth medium, basal	222 1000	L-Glutamine
		231 2500	FCS (foetal calf serum)
		237 2500	Fetuin
		244 0500	human rec. EGF (epidermal growth factor)
		245 0050	human rec. bFGF (basic fibroblast growth factor)
		246 0500	human rec. Insulin
		225 0020	Dexamethasone
		236 0350	Antibiotics (optional)

Maintenance of skeletal muscle cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro skeletal muscle cell growth medium is a sterile liquid culture medium for culturing human skeletal muscle cells (HSKMC). The medium is delivered as a basal medium and is suitable for culturing Provitro HSKMC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented skeletal muscle cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's skeletal muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSKMC proliferating characteristics. The cells cultured in skeletal muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Skeletal muscle cell growth medium, HuS-kit

Cat.-Nr.: 212 0602

contains of:

Basal media		Supplements	
200 0602	500 ml Skeletal muscle cell growth medium, basal	222 1000	L-Glutamine
		232 2500	HuS (human serum AB)
		237 2500	Fetuin
		244 0500	human rec. EGF (epidermal growth factor)
		245 0050	human rec. bFGF (basic fibroblast growth factor)
		246 0500	human rec. Insulin
		225 0020	Dexamethasone
		236 0350	Antibiotics (optional)

Maintenance of skeletal muscle cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro skeletal muscle cell growth medium is a sterile liquid culture medium for culturing human skeletal muscle cells (HSKMC). The medium is delivered as a basal medium and is suitable for culturing Provitro HSKMC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented skeletal muscle cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's skeletal muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSKMC proliferating characteristics. The cells cultured in skeletal muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Skeletal muscle cell differentiation medium, serum-free

Cat.-Nr.: 203 0603

contains of:

Basal media		Supplements	
200 0602	500 ml Skeletal muscle cell growth medium, basal	219 0603	Skeletal muscle cell differentiation Supplement-Kit, serum-free Contains of:
		222 1000	L-Glutamine
		246 0500	human rec. Insulin
		236 0350	Antibiotics (optional)

Maintenance of skeletal muscle cell differentiation medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro skeletal muscle cell differentiation medium is a sterile liquid culture medium w/o serum for culturing human skeletal muscle cells (HSKMC). The medium is delivered as a basal medium and is suitable for culturing Provitro HSKMC after adding the supplement mix components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented skeletal muscle cell differentiation medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's skeletal muscle cell differentiation medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSKMC proliferating characteristics. The cells cultured in skeletal muscle cell differentiation medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Skeletal muscle cell differentiation medium, serum-free kit

Cat.-Nr.: 213 0603

contains of:

Basal media		Supplements	
200 0602	500 ml Skeletal muscle cell growth medium, basal	222 1000	L-Glutamine
		246 0500	human rec. Insulin
		236 0350	Antibiotics (optional)

Maintenance of skeletal muscle cell differentiation medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro skeletal muscle cell differentiation medium is a sterile liquid culture medium w/o serum for culturing human skeletal muscle cells (HSKMC). The medium is delivered as a basal medium and is suitable for culturing Provitro HSKMC after adding the supplement kit components. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented skeletal muscle cell differentiation medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's skeletal muscle cell differentiation medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSKMC proliferating characteristics. The cells cultured in skeletal muscle cell differentiation medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Airway epithelial cell growth medium, basal

Cat.-Nr.: 200 0701

contains of:

Basal media	Supplements
200 0701 500 ml Airway epithelial cell growth medium, basal	-

Maintenance of airway epithelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro airway epithelial cell growth medium is a sterile liquid culture medium w/o serum for culturing human airway epithelial cells (HEPC). The medium is delivered as a basal medium and is suitable for culturing HEPC **after adding the optional available essential supplement kit components**. The final formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 75 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented airway epithelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's airway epithelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HEPC proliferating characteristics. The cells cultured in airway epithelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Airway epithelial cell growth medium, serum-free

Cat.-Nr.: 203 0701

contains of:

Basal media		Supplements	
200 0701	500 ml Airway epithelial cell growth medium, basal	238 0701	Airway epithelial cell growth supplement 1
		238 0702	Airway epithelial cell growth supplement 2
		238 0703	Airway epithelial cell growth supplement 3

Maintenance of airway epithelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro airway epithelial cell growth medium is a sterile liquid culture medium w/o serum for culturing human airway epithelial cells (HAEPC). The medium is delivered as a basal medium and is suitable for culturing Provitro HAEPCC after adding the 3 supplement mix components. The formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 75 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented airway epithelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

For passaging of cells use provitro Passage Kit 4 (Cat.-Nr.: 204 0004) only. Other cell detachment kits might lead to insufficient cell detachment and cell loss!

Quality control:

Provitro's airway epithelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HEPC proliferating characteristics. The cells cultured in airway epithelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Urothelial cell growth medium, basal

Cat.-Nr.: 200 0702

contains of:

Basal media	Supplements
200 0702 500 ml Urothelial cell growth medium, basal	-

Maintenance of urothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro urothelial cell growth medium is a sterile liquid culture medium w/o serum for culturing Human urothelial epithelial cells (HUEPC). The medium is delivered as a basal medium and is suitable for culturing HUEPC **after adding the optional available essential supplement kit components**. The final formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 75 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented urothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's urothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HUEPC proliferating characteristics. The cells cultured in urothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Urothelial cell growth medium, serum-free

Cat.-Nr.: 203 0702

contains of:

Basal media		Supplements	
200 0702	500 ml Urothelial cell growth medium, basal	238 0704	Urothelial cell growth supplement 1
		238 0705	Urothelial cell growth supplement 2
		238 0706	Urothelial cell growth supplement 3

Maintenance of urothelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro urothelial cell growth medium is a sterile liquid culture medium w/o serum for culturing Human urothelial cells (HUEPC). The medium is delivered as a basal medium and is suitable for culturing Provitro HUEPC after adding the 3 supplement components. The formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 75 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented urothelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's urothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HUEPC proliferating characteristics. The cells cultured in urothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Mammary epithelial cell growth medium, basal

Cat.-Nr.: 200 0703

contains of:

Basal media	Supplements
200 0703 500 ml Mammary epithelial cell growth medium, basal	-

Maintenance of mammary epithelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro mammary epithelial cell growth medium is a sterile liquid culture medium w/o serum for culturing human mammary epithelial cells (HMEPC). The medium is delivered as a basal medium and is suitable for culturing HMEPC **after adding the optional available essential supplement kit components**. The final formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 75 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented mammary epithelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's mammary epithelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMEPC proliferating characteristics. The cells cultured in mammary epithelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Mammary epithelial cell growth medium, serum-free

Cat.-Nr.: 203 0703

contains of:

Basal media		Supplements	
200 0703	500 ml Mammary epithelial cell growth medium, basal	219 0701	Mammary epithelial cell Supplement-Mix, serum-free
		236 0350	Antibiotics (optional)

Maintenance of mammary epithelial cell growth medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro mammary epithelial cell growth medium is a sterile liquid culture medium w/o serum for culturing human mammary epithelial cells (HMEPC). The medium is delivered as a basal medium and is suitable for culturing Provitro HMEPC after adding the supplement mix components. The formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 75 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented mammary epithelial cell growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's mammary epithelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMEPC proliferating characteristics. The cells cultured in mammary epithelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

hMSC proliferation medium, basal

Cat.-Nr.: 200 0901

contains of:

Basal media	Supplements
200 0901 500 ml hMSC proliferation medium, basal	-

Maintenance of hMSC proliferation medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro hMSC proliferation medium is a sterile liquid culture medium for culturing human mesenchymal stem cells (hMSC). The medium is delivered as a basal medium and is suitable for culturing human mesenchymal stem cells **after adding optional available essential supplement mix components**. The final formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented hMSC proliferation medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's hMSC proliferation medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for hMSC proliferating characteristics. The cells cultured in hMSC proliferation medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

hMSC proliferation medium, FCS

Cat.-Nr.: 201 0901

contains of:

Basal media		Supplements	
200 0901	500 ml hMSC proliferation medium, basal	218 0901	hMSC proliferation medium Supplement-Mix, FCS
		236 0350	Antibiotics (optional)

Maintenance of hMSC proliferation medium:

Place the bottle of **medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro hMSC proliferation medium is a sterile liquid culture medium for culturing human mesenchymal stem cells (hMSC). The medium is delivered as a basal medium and is suitable for culturing hMSC after adding the supplement mix components. The formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use any antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented hMSC proliferation medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's hMSC proliferation medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for hMSC proliferating characteristics. The cells cultured in hMSC proliferation medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

hMSC proliferation medium, FCS-kit

Cat.-Nr.: 211 0901

contains of:

Basal media		Supplements	
200 0901	500 ml hMSC proliferation medium, basal	231 5000	FCS (foetal calf serum)
		221 1000	HEPES
		222 1001	L-Alanyl-L-Glutamine
		245 0100	human rec. bFGF (basic fibroblast growth factor)
		236 0350	Antibiotics (optional)

Maintenance of hMSC proliferation medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro hMSC proliferation growth medium is a sterile liquid culture medium for culturing human mesenchymal stem cells (hMSC). The medium is delivered as a basal medium and is suitable for culturing hMSC after adding the supplement kit components. The formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented hMSC proliferation growth medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's hMSC proliferation medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for hMSC proliferating characteristics. The cells cultured in hMSC proliferation medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

hMSC chondrogenesis induction medium, basal

Cat.-Nr.: 200 0902

contains of:

Basal media	Supplements
200 0902 500 ml hMSC chondrogenesis induction medium, basal	-

Maintenance of hMSC chondrogenesis induction medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provistro hMSC chondrogenesis induction medium is a sterile liquid culture medium for inducing chondrogenic differentiation of human mesenchymal stem cells (hMSC). The medium is delivered as a basal medium and is suitable **after adding optional available essential supplement mix components**. The final formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented hMSC chondrogenesis induction medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provistro's hMSC chondrogenesis induction medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for hMSC chondrogenesis induction characteristics. The cells cultured in hMSC chondrogenesis induction medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

hMSC chondrogenesis induction medium, serum-free kit

Cat.-Nr.: 213 0902

contains of:

Basal media		Supplements	
200 0902	500 ml hMSC chondrogenesis induction medium, basal +4°C	1x 221 1000	HEPES -20°C
		10x 238 0902	ITS +4°C
		10x 238 0903	Dexamethasone -20°C
		10x 238 0904	TGF-β-3 -20°C
		10x 238 0905	Sodium pyruvate -20°C
		10x 238 0906	Asorbic-acid-2-phosphate -20°C
		10x 238 0907	Proline -20°C
		1x 236 0350	Antibiotics (optional) -20°C

Maintenance of hMSC chondrogenesis induction medium:

Place the bottle of **medium** in the dark at **4°C to 8°C** immediately after delivery. Store the separate delivered **Supplements** at **-20°C / +4°C**. **Take care on the instructions on the Supplement vials!!!**

Characteristics:

The Provitro hMSC chondrogenesis induction medium is a sterile liquid culture medium for inducing chondrogenic differentiation of human mesenchymal stem cells (hMSC). The medium is delivered as a basal medium and is suitable for culturing hMSC after adding all the supplement mix components. The formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

After adding 10 ml HEPES and optional 3,5ml antibiotics to the hMSC chondrogenesis induction medium basal the media can be stored in the dark at 4°C to 8°C for up to 4 weeks. After adding the induction supplement components 1, 2 and 3 to the media, the media can be stored in the dark at 4°C to 8°C for up to 1 week. Therefore each aliquot contains enough volume to prepare 50 ml hMSC chondrogenesis induction media only. **To prepare 50 ml chondrogenesis inductions media add 500 µl ITS, 500 µl Dexamethasone, 500 µl Sodium pyruvate, 500 µl Asorbic-acid-2-phosphate and 500 µl Proline to 50 ml hMSC chondrogenesis induction medium, basal (already supplemented with HEPES). 500 µl TGF-β-3 must be added always fresh (see recommended application). Do not use the supplemented media for longer than one week (without TGF-β-3).** Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's hMSC chondrogenesis induction medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for hMSC chondrogenesis induction characteristics. The cells cultured in hSMC chondrogenesis induction medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Recommended application of hMSC chondrogenesis induction medium

Completion of culture medium:

- First of all add 10 ml HEPES and optional 3.5 ml of antibiotics to 500 ml of basal media. Having added HEPES and antibiotics, the medium can be stored in the dark at 4°C to 8°C for up to 4 weeks.

1st option: Preparing 50 ml of chondrogenesis control media (CCM):

- Add to 50 ml basal media (being already supplemented with HEPES) one vial of ITS (500 µl), one vial of Dexamethasone (500 µl), one vial of Sodium pyruvate (500µl), one vial of Asorbic-acid-2-phosphate (500µl) and one vial of Proline (500 µl).

NOTE: Store the prepared chondrogenesis control media at 4°C to 8°C in the dark and do not use longer than 1 week!

2nd option: Preparing 50 ml of chondrogenesis induction media (CIM):

- Add one vial of TGF-β-3 (500 µl) to 50 ml of the control media (CCM) prepared before.

NOTE: Prepare the chondrogenesis induction medium (CIM) always fresh and use it within 12 hours! If you need less than 50 ml of chondrogenesis induction media (CIM) at one time, you may aliquot smaller volumes of chondrogenesis induction supplement 3. In general, one needs 10 µl of chondrogenesis induction supplement 3 to prepare 1 ml of chondrogenesis inductions media (CIM).

Culture protocol:

- First of all, estimate the total number of pellet cultures needed for your experiment. BEWARE: You will need $2.5 \cdot 10^5$ cells to form one chondrocyte pellet. You should always work in duplicates and maybe carry a negative control (using chondrogenesis control media instead of chondrogenesis induction media during the following culturing steps).
- After harvesting your precultured hMSC, transfer for each pellet $2.5 \cdot 10^5$ cells into a separate 15 ml polypropylene tube.
- Centrifuge the cells at 150xg for 5 minutes and discard the supernatant. Resuspend the cells in **500 µl of chondrogenesis control (CCM) or inductions media (CIM)**.
- Centrifuge the cells again at 150xg for 5 minutes and DO NOT aspirate the supernatant, and DO NOT resuspend the pellet!
- Loosen the cap of the tubes one half turn to allow gas exchange and incubate the tubes at 37°C, 5% CO₂ for 48 hours
- Meanwhile, the cells should have formed a spherical aggregate detached from the tube wall.
- Replace every 2-3 days 90% of the supernatant with 450 µl of the corresponding medium (CCM or CIM).
- Having replaced the media, gently flick the bottom of each tube to ensure the pellet is free floating, and do not forget to loosen the gap again before returning the tubes to the 37°C incubator
- Chondrogenic pellets and also the control pellets should be harvested after 28 days in culture.
- For frozen sectioning the pellets may be embedded in Tissue Tek. Thin sections of pellet cultures may be stained e.g. with markers specific for glycoproteins

hMSC osteogenesis induction medium, basal

Cat.-Nr.: 200 0903

contains of:

Basal media	Supplements
200 0903 500 ml hMSC osteogenesis induction medium, basal	-

Maintenance of hMSC osteogenesis induction medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro hMSC osteogenesis induction medium is a sterile liquid culture medium for inducing osteogenic differentiation of human mesenchymal stem cells (hMSC). The medium is delivered as a basal medium and is suitable **after adding optional available essential supplement mix components**. The final formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented hMSC osteogenesis induction medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's hMSC osteogenesis induction medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for hMSC osteogenesis induction characteristics. The cells cultured in hMSC osteogenesis induction medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

hMSC osteogenesis induction medium, FCS-kit

Cat.-Nr.: 211 0903

contains of:

Basal media (+4°C)		Supplements (-20°C)	
200 0903	500 ml hMSC osteogenesis induction medium, basal	1x 231 5000	FCS (foetal calf serum)
		1x 221 1000	HEPES
		1x 222 1001	L-Glutamine
		10x 238 0903	Dexamethasone
		10x 238 0908	Ascorbic-Acid-2-phosphate
		10x 238 0909	β-Glycerol-phosphate
		1x 236 0350	Antibiotics (optional)

Maintenance of hMSC osteogenesis induction medium:

Place the bottle of **medium** in the dark at **4°C to 8°C** immediately after delivery. Store the delivered **Supplements** at **-20°C**.

Characteristics:

The Provitro hMSC osteogenesis induction medium is a sterile liquid culture medium for inducing osteogenic differentiation of human mesenchymal stem cells (hMSC). The medium is delivered as a basal medium and is suitable for culturing hMSC after adding the supplement mix components. The formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Reconstitution, stability and storage:

After adding 50 ml FCS, 10 ml HEPES and 5 ml L-glutamine and optional 3,5 ml Antibiotics to the 500 ml hMSC osteogenesis induction medium basal the media can be stored in the dark at 4°C to 8°C for up to 4 weeks. **Take care:** After adding the Osteogenesis induction factor Dexamethasone, Ascorbic-Acid-2-phosphate and β-Glycerol-phosphate to the media, the media can be stored in the dark at 4°C to 8°C for up to 1 week. Therefore each aliquot contains enough volume to prepare 50 ml hMSC osteogenesis induction media only. To prepare 50 ml osteogenesis inductions media add 500 µl Dexamethasone, 500 µ Ascorbic-Acid-2-phosphate and 500 µ β-Glycerol-phosphate to 50 ml hMSC osteogenesis induction medium, basal (already supplemented with FCS, HEPES and L-Glutamine). Do not use the supplemented media for longer than one week. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's hMSC osteogenesis induction medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for hMSC osteogenesis induction characteristics. The cells cultured in hSMC osteogenesis induction medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Recommended application of hMSC osteogenesis induction medium

Completion of culture medium:

- First of all add 50 ml FCS, 10 ml HEPES, 5 ml L-Glutamine and optional 3.5 ml of antibiotics to 500 ml basal medium. Having added those supplements, the medium can be stored in the dark at 4°C to 8°C for up to 4 weeks.

Preparing 50 ml of osteogenesis induction medium:

- Add one vial of Dexamethasone (500 µl), one vial Ascorbic-Acid-2-phosphate (500 µl) and one vial β-Glycerol-phosphate (500 µl) to 50 ml basal media (the latter being already supplemented with HEPES, FCS, L-Glutamine).

NOTE: Store the prepared osteogenesis induction medium at 4°C to 8°C in the dark, and do not use longer than 1 week!

Culture protocol:

- After harvesting your pre-cultured hMSC, plate 5,000 cells/cm² in a 6 well-plate (1 well ~ 10 cm² = 5*10⁴ cells per well).
- Feed the cells every 2-3 days with hMSC proliferation media (e.g. provitro 201 0901) until the culture reaches 100 % confluence (approx. 5-7 days).
- Having 100% confluent hMSC culture change the media all 2-3 days with osteogenesis induction media and incubate the cells always at 37°C, 5 % CO₂.
- Possible negative controls will be fed always with osteogenesis induction media without the osteogenesis induction factor (that means basal media only supplemented with HEPES, FCS and L-Glutamine).
- After at least 28 days of culturing osteogenic structures can be detected e.g. with Von Kossa or Alkaline phosphatase staining.

hMSC adipogenesis induction medium, basal

Cat.-Nr.: 200 0904

contains of:

Basal media	Supplements
200 0904 500 ml hMSC adipogenesis induction medium, basal	-

Maintenance of hMSC adipogenesis induction medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provistro hMSC adipogenesis induction medium is a sterile liquid culture medium for inducing adipogenic differentiation of human mesenchymal stem cells (hMSC). The medium is delivered as a basal medium and is **suitable after adding optional available essential supplement mix components**. The final formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented hMSC adipogenesis induction medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provistro's hMSC adipogenesis induction medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for hMSC adipogenesis induction characteristics. The cells cultured in hMSC adipogenesis induction medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

hMSC adipogenesis induction medium, FCS-kit

Cat.-Nr.: 211 0904

contains of:

Basal media		Supplements	
200 0904	500 ml hMSC adipogenesis induction medium, basal (+4°C)	1x 231 5000	FCS (foetal calf serum) (-20°C)
		1x 221 1000	HEPES (-20°C)
		1x 222 1001	L-Glutamine (-20°C)
		10x 225 0904	Dexamethasone (-20°C)
		10x 229 0904	Indomethacine (-20°C)
		10x 230 0904	3-Isobutyl-1-methyl-xanthine (-20°C)
		10x 246 0904	Insulin (-20°C)
		1x 236 0350	Antibiotics (optional) (-20°C)

Maintenance of hMSC adipogenesis induction medium:

Place the bottle of **medium** in the dark at **4°C to 8°C** immediately after delivery. Store the separate delivered **Supplements** at **-20°C**.

Characteristics:

The Provitro hMSC adipogenesis induction medium is a sterile liquid culture medium for inducing adipogenic differentiation of human mesenchymal stem cells (hMSC). The medium is delivered as a basal medium and is suitable for culturing hMSC after adding the supplement kit components. The formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

After adding 50 ml FCS, 10 ml HEPES and 5 ml L-Glutamine and optional 3,5 ml antibiotics to the 500 ml hMSC adipogenesis induction medium basal the media can be stored in the dark at 4°C to 8°C for up to 4 weeks. After adding the induction factor Dexamethasone, Indomethacine, 3-Isobutyl-1-methyl-xanthine and insulin to the media, the media can be stored in the dark at 4°C to 8°C for up to 1 week. Therefore each aliquot contains enough volume to prepare 50 mL hMSC adipogenesis induction media only. **To prepare 50 ml adipogenesis inductions media add 500 µl Dexamethasone, 500 µl Indomethacine, 500 µl 3-Isobutyl-1-methyl-xanthine and 500 µl Insulin to 50 mL hMSC adipogenesis induction medium, basal (already supplemented with FCS, HEPES and L-Glutamine). Do not use the supplemented media for longer than one week.** Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's hMSC adipogenesis induction medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for hMSC adipogenesis induction characteristics. The cells cultured in hMSC adipogenesis induction medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Recommended application of hMSC adipogenesis induction medium

Completion of culture medium:

- First of all add 50 ml FCS, 10 ml HEPES, 5 ml L-Glutamine and optional 3.5 ml of antibiotics to 500 ml basal medium. Having added those supplements, the medium can be stored in the dark at 4°C to 8°C for up to 4 weeks.

1st option: Preparing 50 ml of adipogenesis maintenance medium (AMM):

- Add one vial of Insulin (500 µl) to 50 ml basal media (the latter being already supplemented with HEPES, FCS, L-Glutamine).

NOTE: Store the prepared adipogenesis maintenance medium at 4°C to 8°C in the dark, and do not use longer than 1 week!

2nd option: Preparing 50 ml of adipogenesis induction medium (AIM):

- Add one vial of Insulin (500 µl), one vial of Dexamethasone (500 µl), one vial of Indomethacine (500 µl) and one vial of 3-Isobutyl-1-methyl-xanthine (500 µl) to 50 ml of basal medium (the latter being already supplemented with HEPES, FCS, L-Glutamine).

NOTE: Store the prepared adipogenesis inductions media at 4°C to 8°C in the dark and do not use longer than 1 week!

Culture protocol:

- After harvesting your pre-cultured hMSC, plate 5,000 cells/cm² in a 6 well-plate (1 well ~ 10 cm² = 5*10⁴ cells per well).
- Feed the cells every 2-3 days with hMSC proliferation media (e.g. provitro 201 0901) until the culture reaches 100 % confluence (approx. 5-7 days).
- Having 100% confluent hMSC culture, 3 cycles of inductions and maintenance follow:

Precultrue	1st cycle		2nd cycle		3rd cycle	
until 100% confluence	AIM 3 days	AMM 2 days	AIM 3 days	AMM 2 days	AIM 3 days	AMM 2 days

- Change the media all 3 or 2 days according to the above scheme with fresh adipogenesis induction media (**AIM**) or adipogenesis maintenance media (**AMM**), and incubate the cells always at 37°C, 5 % CO₂.
- Possible negative controls will be fed always with adipogenesis maintenance media (AMM).
- After 15 days of culturing the cells should show lipid vacuoles which can be detected e.g. with Oil Red O.

Cancer stem cell medium, basal

Cat.-Nr.: 200 1001

contains of:

Basal media	Supplements
200 1001 500 ml Cancer stem cell medium, basal	-

Maintenance of cancer stem cell medium:

Place the bottle of **basal medium** in the dark at **4°C to 8°C** immediately after delivery.

Characteristics:

The Provitro cancer stem cell medium is a sterile liquid culture medium for culturing human cancer stem cells. The medium is delivered as a basal medium and is suitable for culturing human cancer stem cells **after adding optional available essential supplement mix components**. The final formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary.

Stability and storage:

The supplemented cancer stem cell medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's cancer stem cell medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human cancer stem cell proliferating characteristics. The cells cultured in cancer stem cell medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Cancer stem cell medium, serum-free

Cat.-Nr.: 213 1001

contains of:

Basal media	Supplements
200 1001 500 ml Cancer stem cell medium, basal	222 1000 L-Glutamine 204 3100 BIT-100 Supplement 236 0350 Antibiotics (optional)

Maintenance of cancer stem cell medium:

Place the bottle of **medium** in the dark at **4°C to 8°C** immediately after delivery. Store the **supplements** at **-20°C**.

Characteristics:

The Proviro cancer stem cell medium is a sterile liquid culture medium for culturing human cancer stem cells. The medium is delivered as a basal medium and is suitable for culturing human cancer stem cells after adding the supplement mix components. The formulation is optimized for initial seeding of 6,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use any antibiotic supplement for freshly isolated cells only.**

Stability and storage:

The supplemented cancer stem cell medium can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special note:

Do not freeze the medium. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Proviro's cancer stem cell medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human cancer stem cell proliferating characteristics. The cells cultured in cancer stem cell medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Product specification:

The pH is set at 7.6 and osmolality at 285 ± 10 mOsm / kg.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Passage kit 1

Cat.-No.: 204 0001

contains of:

255 0050	PBS
254 0025	Trypsin/EDTA solution
251 0025	Trypsin neutralization solution with FCS

Maintenance of Passage Kit

Immediately after delivery, place the passage kit in the dark at -20°C. Prior use thaw the passage kit. After thawing store the passage kit in the dark at 4°C for a maximum of 4 weeks. **Take care: After thawing shelf time is limited to 4 weeks!**

Subculture of normal human cells:

1. Examine the cell culture under the microscope. Proceed with subculturing if the cell culture reached the stage of confluence recommended for this particular cell type.
2. Incubate a freshly filled culture flasks in an incubator at 37°C, steam saturated with 5 % (V/V) CO₂. Make sure that the screw lids on the culture flasks are only slightly closed so that a gas exchange is possible.
3. Allow all three solutions in the passage kit to reach room temperature, and remove the seals from the bottles.
4. Open the cell culture flask carefully in a laminar flow cabinet and remove the medium using a sterile pipette. Do not touch the cell monolayer with the pipette. Replace the medium with PBS and wash the cell monolayer for about 30 seconds by gently swivelling the culture flask.
5. For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	5 ml	15 ml
6. Replace the PBS with approx. 80 µl of Trypsin-EDTA-solution/cm². Incubate the culture flask for 4 to 7 minutes at 37°C. The incubation period with the Trypsin-EDTA-solution should not exceed a total of 7 minutes.
7. For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	2 ml	6 ml
8. Immediately afterwards, examine the cells under the microscope. Make sure that all cells are detached. When the cells are completely detached, add approx. 80 µl of neutralising solution/cm² of culture flask surface. Transfer the cell suspension into a centrifuge tube. Rinse the culture flask with additional 80 µl of medium/cm² of culture flask surface and add this suspension to the one in the centrifuge tube.
9. For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	2 ml	6 ml
10. Centrifuge the suspension at 250 x g for 5 minutes. Make sure that the supernatant is completely clear and that all cells are packed in the sediment at the bottom of the tube. After that remove the supernatant carefully.
11. Add 2 ml of medium and re-suspend the cells slowly and carefully by means of a sterile pipette. Take a precise amount of the suspension to determine the cell number.
12. Dilute the cell suspension to a concentration required for culturing. Provistro recommends 200 µl medium/cm² of culture flask bottom.
13. For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
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Passage Kit 1

approx. media volume	5 ml	15 ml
<p>14. Remove the culture medium from the flasks prepared according to step 2 of these instructions. Transfer the cell suspension to these flasks.</p> <p>15. Place the cell culture flasks newly seeded with subcultured cells in an incubator at 37°C, steam saturated with 5 % (V/V) CO₂. Close the screw lids on the culture flasks by half a turn to allow a gas exchange between flask and incubator.</p> <p>16. Examine the cells microscopically after 24 hours. At least 80 % of the cells should adhere. Some cells will swim in the medium or only adhere slightly while most of the cells should be spread out on the bottom of the flasks. At this stage, most of the cells will grow alone or in small clusters. Once the cells have adhered (after min. 24 hours), remove the medium with a pipette and replace it with the same volume of fresh, pre-warmed medium.</p> <p>17. Incubate for a further 24 hours. After this period, the culture should show mitotic clusters reflecting the proliferating activity of the cells.</p> <p>18. Now, replace the medium only every two days.</p>		
Stability and storage:		
<p>After thawing the passage kit can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the kit over 37°C or use uncontrollable sources of heat (e.g. microwave appliances).</p> <p>Do not refreeze the kit. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.</p>		
Special note:		
<p>Overtrypsination causes irreversible damage.</p> <p>Because of the tryptic activity of this passage kit, do not exceed the recommended incubation period. Exposing the cells too long will cause irreversible damages to your culture.</p>		
Quality control:		
<p>Provitro's passage kit is thoroughly tested after each production. All components are tested in a stringent biological assay.</p>		

Passage kit 2

Cat.-No.: 204 0002

contains of:

255 0050	PBS
254 0025	Trypsin/EDTA solution
251 1025	Trypsin neutralization solution, serum-free

Maintenance of Passage Kit:

Immediately after delivery, place the passage kit in the dark at -20°C. Prior use thaw the passage kit. After thawing store the passage kit in the dark at 4°C for a maximum of 4 weeks. **Take care: After thawing shelf time is limited to 4 weeks!**

Subculture of normal human cells:

- Examine the cell culture under the microscope. Proceed with subculturing if the cell culture reached the stage of confluence recommended for this particular cell type.
- Incubate a with freshly culture medium filled culture flasks in an incubator at 37°C, steam saturated with 5 % (V/V) CO₂. Make sure that the screw lids on the culture flasks are only slightly closed so that a gas exchange is possible.
- Allow all three solutions in the passage kit to reach room temperature, and remove the seals from the bottles.
- Open the cell culture flask carefully in a laminar flow cabinet and remove the medium using a sterile pipette. Do not touch the cell monolayer with the pipette. Replace the medium with PBS and wash the cell monolayer for about 30 seconds by gently swivelling the culture flask.
- For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	5 ml	15 ml
- Replace the PBS with approx. 80 µl of Trypsin-EDTA-solution/cm². Incubate the culture flask for 4 to 7 minutes at 37°C. The incubation period with the Trypsin-EDTA-solution should not exceed a total of 7 minutes.
- For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	2 ml	6 ml
- Immediately afterwards, examine the cells under the microscope. Make sure that all cells are detached. When the cells are completely detached, add approx. 80 µl of neutralising solution/cm² of culture flask surface. Transfer the cell suspension into a centrifuge tube. Rinse the culture flask with additional 80 µl of medium/cm² of culture flask surface and add this suspension to the one in the centrifuge tube.
- For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	2 ml	6 ml
- Centrifuge the suspension at 250 x g for 5 minutes. Make sure that the supernatant is completely clear and that all cells are packed in the sediment at the bottom of the tube. After that remove the supernatant carefully.
- Add 2 ml of medium and re-suspend the cells slowly and carefully by means of a sterile pipette. Take a precise amount of the suspension to determine the cell number.
- Dilute the cell suspension to a concentration required for culturing. Provitro recommends 200 µl medium/cm² of culture flask bottom.
- For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	5 ml	15 ml
- Remove the culture medium from the flasks prepared according to step 2 of these instructions. Transfer tcell suspension to these flasks.
- Place the cell culture flasks newly seeded with subcultured cells in an incubator at 37°C, steam saturated with 5 % (V/V)

Passage Kit 2

CO₂. Close the screw lids on the culture flasks by half a turn to allow a gas exchange between flask and incubator.

16. Examine the cells microscopically after 24 hours. At least 80 % of the cells should adhere. Some cells will swim in the medium or only adhere slightly while most of the cells should be spread out on the bottom of the flasks. At this stage, most of the cells will grow alone or in small clusters. Once the cells have adhered (after min. 24 hours), remove the medium with a pipette and replace it with the same volume of fresh, pre-warmed medium.
17. Incubate for a further 24 hours. After this period, the culture should show mitotic clusters reflecting the proliferating activity of the cells.
18. Now, replace the medium only every two days.

Stability and storage:

After thawing the passage kit can be stored in the dark at 4°C to 8°C for up to 1 month. Do not heat the kit over 37°C or use uncontrollable sources of heat (e.g. microwave appliances).

Do not refreeze the kit. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Special note:

Overtrypsination causes irreversible damage.

Because of the tryptic activity of this passage kit, do not exceed the recommended incubation period. Exposing the cells too long will cause irreversible damages to your culture.

Quality control:

Provitro's passage kit is thoroughly tested after each production. All components are tested in a stringent biological assay.

Passage kit 3

Cat.-No.: 204 0003

contains of:

255 0050	PBS
252 0025	Dispase II solution (neutral protease, grade II)

Maintenance of Passage Kit:

Immediately after delivery, place the passage kit in the dark at -20°C. Prior use thaw the tube. After usage store them in the dark at 4°C for a maximum of 2 weeks. **Take care: After thawing shelf time of Dispase II solution is limited to 14 days!**

Subculture of normal human cells:

1. Examine the cell culture under the microscope. Proceed with subculturing if the cell culture reached the stage of confluence recommended for this particular cell type.
2. Incubate a freshly filled culture flasks in an incubator at 37°C, steam saturated with 5 % (V/V) CO₂. Make sure that the screw lids on the culture flasks are only slightly closed so that a gas exchange is possible.
3. Allow all solutions in the passage kit to reach room temperature, and remove the seals from the bottles.
4. Open the cell culture flask carefully in a laminar flow cabinet and remove the medium using a sterile pipette. Do not touch the cell monolayer with the pipette. Replace the medium with PBS and wash the cell monolayer for about 30 seconds by gently swivelling the culture flask.
For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	5 ml	15 ml
5. Replace the PBS with approx. 80 µl of Dispase II-solution/cm². Incubate the culture flask for 8 to 9 minutes at 37°C. Control detaching with the microscope, if necessary incubate for further 5-10 minutes.
For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	2 ml	6 ml
6. Immediately afterwards, examine the cells under the microscope. Make sure that all cells are detached. When the cells are completely detached, transfer the cell suspension into a centrifuge tube. Rinse the culture flask with additional 80 µl of medium/cm² of culture flask surface and add this suspension to the one in the centrifuge tube.
For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	2 ml	6 ml
7. Centrifuge the suspension at 250 x g for 5 minutes. Make sure that the supernatant is completely clear and that all cells are packed in the sediment at the bottom of the tube. After that remove the supernatant carefully.
8. Add 2 ml of medium and re-suspend the cells slowly and carefully by means of a sterile pipette. Take a precise amount of the suspension to determine the cell number.
9. Dilute the cell suspension to a concentration required for culturing. Provitro recommends 200 µl medium/cm² of culture flask bottom.
For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	5 ml	15 ml
10. Remove the culture medium from the flasks prepared according to step 2 of these instructions. Transfer the cell suspension to these flasks.
11. Place the cell culture flasks newly seeded with subcultured cells in an incubator at 37°C, steam saturated with 5 % (V/V) CO₂. Close the screw lids on the culture flasks by half a turn to allow a gas exchange between flask and incubator.
12. Examine the cells microscopically after 24 hours. At least 80 % of the cells should adhere. Some cells will swim in the medium or only adhere slightly while most of the cells should be spread out on the bottom of the flasks. At this stage, most of the cells will grow alone or in small clusters. Once the cells have adhered (after min. 24 hours), remove the medium with a pipette and replace it with the same volume of fresh, pre-warmed medium.
13. Incubate for a further 24 hours. After this period, the culture should show mitotic clusters reflecting the proliferating activity of the cells.
14. Now, replace the medium only every two days.

Passage Kit 3

Stability and storage:

After thawing the passage kit can be stored in the dark at 4°C to 8°C for up to 2 weeks. Do not heat the kit over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). Do not refreeze the kit. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's passage kit is thoroughly tested after each production. All components are tested in a stringent biological assay.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Passage kit 4

Cat.-No.: 204 0004

contains of:

255 0050	PBS
253 0025	detachment solution (recombinant enzyme)

Maintenance of Passage Kit:

Immediately after delivery, place the passage kit in the dark at -20°C. Prior use thaw the tube. After usage store them in the dark at 4°C for a maximum of 4 weeks. **Take care: After thawing shelf time is limited to 4 weeks!**

Subculture of normal human cells:

1. Examine the cell culture under the microscope. Proceed with subculturing if the cell culture reached the stage of confluence recommended for this particular cell type.
2. Incubate a freshly filled culture flasks in an incubator at 37°C, steam saturated with 5 % (V/V) CO₂. Make sure that the screw lids on the culture flasks are only slightly closed so that a gas exchange is possible.
3. Allow all solutions in the passage kit to reach room temperature, and remove the seals from the bottles.
4. Open the cell culture flask carefully in a laminar flow cabinet and remove the medium using a sterile pipette. Do not touch the cell monolayer with the pipette. Replace the medium with PBS and wash the cell monolayer for about 30 seconds by gently swivelling the culture flask.
For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	5 ml	15 ml
5. Replace the PBS with approx. 80 µl of detachment-solution/cm². Incubate the culture flask for 3 to 5 minutes at 37°C. Control detaching with the microscope, if necessary incubate for further 3-5 minutes.
For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	2 ml	6 ml
6. Immediately afterwards, examine the cells under the microscope. Make sure that all cells are detached. When the cells are completely detached, transfer the cell suspension into a centrifuge tube. Rinse the culture flask with additional 80 µl of medium/cm² of culture flask surface and add this suspension to the one in the centrifuge tube.
For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	2 ml	6 ml
7. Centrifuge the suspension at 250 x g for 5 minutes. Make sure that the supernatant is completely clear and that all cells are packed in the sediment at the bottom of the tube. After that remove the supernatant carefully.
8. Add 2 ml of medium and re-suspend the cells slowly and carefully by means of a sterile pipette. Take a precise amount of the suspension to determine the cell number.
9. Dilute the cell suspension to a concentration required for culturing. Provitro recommends 200 µl medium/cm² of culture flask bottom.
For standard cell culture flasks:

Tissue culture flask base	25 cm ²	75 cm ²
approx. media volume	5 ml	15 ml
10. Remove the culture medium from the flasks prepared according to step 2 of these instructions. Transfer the cell suspension to these flasks.
11. Place the cell culture flasks newly seeded with subcultured cells in an incubator at 37°C, steam saturated with 5 % (V/V) CO₂. Close the screw lids on the culture flasks by half a turn to allow a gas exchange between flask and incubator.
12. Examine the cells microscopically after 24 hours. At least 80 % of the cells should adhere. Some cells will swim in the medium or only adhere slightly while most of the cells should be spread out on the bottom of the flasks. At this stage, most of the cells will grow alone or in small clusters. Once the cells have adhered (after min. 24 hours), remove the medium with a pipette and replace it with the same volume of fresh, pre-warmed medium.
13. Incubate for a further 24 hours. After this period, the culture should show mitotic clusters reflecting the proliferating activity of the cells.
14. Now, replace the medium only every two days.

Passage Kit 4

Stability and storage:

After thawing the passage kit can be stored in the dark at 4°C to 8°C for up to 1 month, at -20°C see expiry date on tube label. Do not heat the kit over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). Do not refreeze the kit after thawing. This can lead to high salt concentrations by freezing out pure water which will cause irreversible damage.

Quality control:

Provitro's passage kit is thoroughly tested after each production. All components are tested in a stringent biological assay.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Cryo solution (serum-free), Cryo-SFM

Cat.-No.: 204 0101, 125 ml

Cat.-No.: 204 0102, 30 ml

Maintenance of Cryo-SFM

Place the medium in the dark at 4°C to 8°C immediately after delivery.

Description:

In a serum-free cell culture system, it is very important to cryopreserve cells also in a serum-free freeze medium and not in a serum containing medium. Using an ordinary serum containing freeze medium, the serum affects the cell culture system over a long period. This influence can only be removed by dilution during a large number of passages after seeding. Provitro's Cryo-SFM is a new formulation for cryopreservation of animal and human cells containing no serum, but rather DMSO, methyl cellulose and other cryoprotectant ingredients. After cryopreservation and thawing, a very high percentage of viable cells is obtained. Cells which are cryopreserved in Cryo-SFM also show excellent attachment ability as well as growth performance after thawing.

Using Cryo-SFM:

Adherent Cells: Remove adherent cells with Trypsin/EDTA (Provitro Cat.-No.: 204 0001). Neutralize Trypsin with Trypsin inhibitor (Provitro Cat.-No. 204 0001), pellet cells by centrifuging at low acceleration (200 x g) for 3-5 minutes and remove Trypsin inhibitor solution. Resuspend the cells in cold Cryo-SFM at a concentration of 1 - 4 million cells/ml. Freeze the cells gradually (1°C/minute) and store them in liquid nitrogen.

Cells in Suspension: Pellet the cells by centrifuge at low acceleration (200 x g) for 4 minutes. Remove the supernatant, gently resuspend the cells in Cryo-SFM at a concentration of 1-5 million cells/ml. Freeze the cells gradually (1°C/minute) and store them in liquid nitrogen.

Thawing: Gently shake the vial in warm water (37°C) until approximately 90% of the freeze medium is just thawed. Remove the vial immediately and continue shaking until the whole contents is thawed. (Do not allow longer incubation of the vial at 37°C! The viability of the cells is drastically diminished in the thawed freeze medium.) Wipe it with 70% ethanol and remove the cap being careful not to touch the interior threads with fingers. Resuspend the contents of the vial gently using a pipette and dispense the contents of the vial into the equilibrated culture vessels.

Quality control:

Provitro's Cryo-SFM is fully performance tested at the time of production. Each lot is tested and cell viability, attachment ability and growth performance is controlled after cryopreservation and thawing of cells.

Stability and storage:

The Cryo-SFM can be stored in the dark at 4°C to 8°C for up to 3 months.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Cryo solution (serum-free), Cryo-SFM

Cat.-No.: 204 0101, 125 ml

Cat.-No.: 204 0102, 30 ml

Maintenance of Cryo-SFM

Place the medium in the dark at 4°C to 8°C immediately after delivery.

Description:

In a serum-free cell culture system, it is very important to cryopreserve cells also in a serum-free freeze medium and not in a serum containing medium. Using an ordinary serum containing freeze medium, the serum affects the cell culture system over a long period. This influence can only be removed by dilution during a large number of passages after seeding. Provitro's Cryo-SFM is a new formulation for cryopreservation of animal and human cells containing no serum, but rather DMSO, methyl cellulose and other cryoprotectant ingredients. After cryopreservation and thawing, a very high percentage of viable cells is obtained. Cells which are cryopreserved in Cryo-SFM also show excellent attachment ability as well as growth performance after thawing.

Using Cryo-SFM:

Adherent Cells: Remove adherent cells with Trypsin/EDTA (Provitro Cat.-No.: 204 0001). Neutralize Trypsin with Trypsin inhibitor (Provitro Cat.-No. 204 0001), pellet cells by centrifuging at low acceleration (200 x g) for 3-5 minutes and remove Trypsin inhibitor solution. Resuspend the cells in cold Cryo-SFM at a concentration of 1 - 4 million cells/ml. Freeze the cells gradually (1°C/minute) and store them in liquid nitrogen.

Cells in Suspension: Pellet the cells by centrifuge at low acceleration (200 x g) for 4 minutes. Remove the supernatant, gently resuspend the cells in Cryo-SFM at a concentration of 1-5 million cells/ml. Freeze the cells gradually (1°C/minute) and store them in liquid nitrogen.

Thawing: Gently shake the vial in warm water (37°C) until approximately 90% of the freeze medium is just thawed. Remove the vial immediately and continue shaking until the whole contents is thawed. (Do not allow longer incubation of the vial at 37°C! The viability of the cells is drastically diminished in the thawed freeze medium.) Wipe it with 70% ethanol and remove the cap being careful not to touch the interior threads with fingers. Resuspend the contents of the vial gently using a pipette and dispense the contents of the vial into the equilibrated culture vessels.

Quality control:

Provitro's Cryo-SFM is fully performance tested at the time of production. Each lot is tested and cell viability, attachment ability and growth performance is controlled after cryopreservation and thawing of cells.

Stability and storage:

The Cryo-SFM can be stored in the dark at 4°C to 8°C for up to 3 months.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for endothelial cell proliferation medium, FCS-kit

Cat.-Nr.: 215 0001

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine 231 3500 FCS (foetal calf serum) 226 0500 Heparin 244 0500 human rec. EGF (epidermal growth factor) 245 0250 human rec. bFGF (basic fibroblast growth factor) 241 0025 human rec. VEGF 242 0500 human rec. Long R3 IGF-1 223 0005 Ascorbic acid 224 0010 Hydrocortisone 236 0350 Antibiotics (optional)

Maintenance of supplement kit for endothelial cell growth medium:

The supplements are delivered on dry ice. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro supplement kit for endothelial cell proliferation medium is suitable for culturing Provitro human endothelial cells **after adding the supplement kit components to 500 ml basal medium**. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

Store the **supplements** at **-20°C**. Do not use the supplements after expiring date.

Special note:

Avoid any thaw/freeze cycle.

Quality control:

Provitro's supplement kit for endothelial cell proliferation medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for endothelial cell proliferation medium, HuS-kit

Cat.-Nr.: 216 0001

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine 232 3500 HuS (human serum AB) 226 0500 Heparin 244 0500 human rec. EGF (epidermal growth factor) 245 0250 human rec. bFGF (basic fibroblast growth factor) 241 0025 human rec. VEGF 242 0500 human rec. Long R3 IGF-1 223 0005 Ascorbic acid 224 0010 Hydrocortisone 236 0350 Antibiotics (optional)

Maintenance of supplement kit for endothelial cell growth medium:

The supplements are delivered on dry ice. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro supplement kit for endothelial cell proliferation medium is suitable for culturing Provitro human endothelial cells **after adding the supplement kit components to 500 ml basal medium**. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

Store the **supplements** at **-20°C**. Do not use the supplements after expiring date.

Special note:

Avoid any thaw/freeze cycle.

Quality control:

Provitro's supplement kit for endothelial cell proliferation medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for endothelial cell growth medium, advanced, FCS-kit

Cat.-Nr.: 215 1101

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine
	231 1000 FCS (foetal calf serum)
	226 1125 Heparin
	244 0250 human rec. EGF (epidermal growth factor)
	245 0500 human rec. bFGF (basic fibroblast growth factor)
	241 0025 human rec. VEGF
	242 1000 human rec. Long R3 IGF-1
	223 0005 Ascorbic acid
	224 0010 Hydrocortisone
	236 0350 Antibiotics (optional)

Maintenance of supplement kit for endothelial cell growth medium, advanced:

The supplements are delivered on dry ice. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro supplement kit for endothelial cell growth medium, advanced is suitable for culturing Provitro human endothelial cells **after adding the supplement kit components to 500 ml basal medium**. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

Store the **supplements** at **-20°C**. Do not use the supplements after expiring date.

Special note:

Avoid any thaw/freeze cycle.

Quality control:

Provitro's supplement kit for endothelial cell growth medium, advanced is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for endothelial cell growth medium, advanced, HuS-kit

Cat.-Nr.: 216 1101

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine 232 1000 HuS (human serum AB) 226 1125 Heparin 244 0250 human rec. EGF (epidermal growth factor) 245 0500 human rec. bFGF (basic fibroblast growth factor) 241 0025 human rec. VEGF 242 1000 human rec. Long R3 IGF-1 223 0005 Ascorbic acid 224 0010 Hydrocortisone 236 0350 Antibiotics (optional)

Maintenance of supplement kit for endothelial cell growth medium, advanced:

The supplements are delivered on dry ice. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro supplement kit for endothelial cell growth medium, advanced is suitable for culturing Provitro human endothelial cells **after adding the supplement kit components to 500 ml basal medium**. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

Store the **supplements** at **-20°C**. Do not use the supplements after expiring date.

Special note:

Avoid any thaw/freeze cycle.

Quality control:

Provitro's supplement kit for endothelial cell growth medium, advanced is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for human endothelial cells proliferating characteristics. The cells cultured in endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for microvascular endothelial cell growth medium, FCS-kit

Cat.-Nr.: 215 0102

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine 231 2500 FCS (foetal calf serum) 233 0600 ECGS/H (endothelial cell growth supplement / Heparin) 243 0050 human rec. EGF (epidermal growth factor) 224 0050 Hydrocortisone 236 0350 Antibiotics (optional)

Maintenance of supplement kit for microvascular endothelial cell growth medium:

The supplements are delivered on dry ice. Store the **supplements at -20°C**.

Characteristics:

The Provitro supplement kit for microvascular endothelial cell growth medium is suitable for culturing Provitro human microvascular endothelial cells **after adding the supplement kit components to 500 ml basal medium**. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

Store the **supplements at -20°C**. Do not use the supplements after expiring date.

Special note:

Avoid any thaw/freeze cycle.

Quality control:

Provitro's supplement kit for microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for microvascular endothelial cell growth medium, HuS-kit

Cat.-Nr.: 216 0102

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine 232 2500 HuS (human serum AB) 233 0600 ECGS/H (endothelial cell growth supplement / Heparin) 243 0050 human rec. EGF (epidermal growth factor) 224 0050 Hydrocortisone 236 0350 Antibiotics (optional)

Maintenance of supplement kit for microvascular endothelial cell growth medium:

The supplements are delivered on dry ice. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro supplement kit for microvascular endothelial cell growth medium is suitable for culturing Provitro human microvascular endothelial cells **after adding the supplement kit components to 500 ml basal medium**. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

Store the **supplements** at **-20°C**. Do not use the supplements after expiring date.

Special note:

Avoid any thaw/freeze cycle.

Quality control:

Provitro's supplement kit for microvascular endothelial cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for microvascular endothelial cell growth medium, advanced, FCS-kit

Cat.-Nr.: 215 1102

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine 231 2500 FCS (foetal calf serum) 244 0250 human rec. EGF (epidermal growth factor) 245 0500 human rec. bFGF (basic fibroblast growth factor) 242 1000 human rec. Long R3 IGF-1 223 0005 Ascorbic acid 241 0025 human rec. VEGF 224 0010 Hydrocortisone 236 0350 Antibiotics (optional)

Maintenance of supplement kit for microvascular endothelial cell growth medium, advanced:

The supplements are delivered on dry ice. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro supplement kit for microvascular endothelial cell growth medium, advanced is suitable for culturing Provitro human microvascular endothelial cells **after adding the supplement kit components to 500 ml basal medium**. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

Store the **supplements** at **-20°C**. Do not use the supplements after expiring date.

Special note:

Avoid any thaw/freeze cycle.

Quality control:

Provitro's supplement kit for microvascular endothelial cell growth medium, advanced is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for microvascular endothelial cell growth medium, advanced, HuS-kit

Cat.-Nr.: 216 1102

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine 232 2500 HuS (human serum AB) 244 0250 human rec. EGF (epidermal growth factor) 245 0500 human rec. bFGF (basic fibroblast growth factor) 242 1000 human rec. Long R3 IGF-1 223 0005 Ascorbic acid 241 0025 human rec. VEGF 224 0010 Hydrocortisone 236 0350 Antibiotics (optional)

Maintenance of supplement kit for microvascular endothelial cell growth medium, advanced:

The supplements are delivered on dry ice. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro supplement kit for microvascular endothelial cell growth medium, advanced is suitable for culturing Provitro human microvascular endothelial cells **after adding the supplement kit components to 500 ml basal medium**. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

Store the **supplements** at **-20°C**. Do not use the supplements after expiring date.

Special note:

Avoid any thaw/freeze cycle.

Quality control:

Provitro's supplement kit for microvascular endothelial cell growth medium, advanced is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMVEC proliferating characteristics. The cells cultured in microvascular endothelial cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for defined fibroblast maintenance medium, serum-free

Cat.-Nr.: 217 0401

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine 245 0050 human rec. bFGF (basic fibroblast growth factor) 246 0250 human rec. Insulin 236 0350 Antibiotics (optional)

Maintenance of supplement kit for defined fibroblast growth medium:

The supplements are delivered on dry ice. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro supplement kit for defined fibroblast maintenance medium is suitable for maintenance culturing of Provitro human fibroblasts (HFIB) **after adding the supplement kit components to 500 ml basal medium**. The formulation is optimized for initial seeding of 6,000 cells / cm². Feeder-layer, matrix substrates or other substances are not necessary. **We recommend using the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

Store the **supplements** at **-20°C**. Do not use the supplements after expiring date.

Special note:

Avoid any thaw/freeze cycle.

Quality control:

Provitro's supplement kit for defined fibroblast maintenance medium is thoroughly tested after each production. All components are tested in a stringent biological assay. The cells cultured in defined fibroblast maintenance medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for melanocyte growth medium, serum-free

Cat.-Nr.: 217 0502

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine
	234 2600 BPE
	245 0050 human rec. bFGF (basic fibroblast growth factor)
	224 0025 Hydrocortisone
	246 0250 human rec. Insulin
	235 0500 PMA
	236 0350 Antibiotics (optional)

Maintenance of supplement kit for melanocyte growth medium:

The supplements are delivered on dry ice. Store the **supplements** at -20°C.

Characteristics:

The Provitro supplement kit for melanocyte growth medium is suitable for culturing human melanocytes (HMEI) **after adding the supplement kit components to 500 ml basal medium**. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 75 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

Store the **supplements** at -20°C. Do not use the supplements after expiring date.

Special note:

Avoid any thaw/freeze cycle.

Quality control:

Provitro's supplement kit for melanocyte growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HMEI proliferating characteristics. The cells cultured in melanocyte growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for smooth muscle cell growth medium, FCS

Cat.-Nr.: 215 0601

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine 231 2500 FCS (foetal calf serum) 243 0025 human rec. EGF (epidermal growth factor) 245 0100 human rec. bFGF (basic fibroblast growth factor) 246 0250 human rec. Insulin 236 0350 Antibiotics (optional)

Maintenance of supplement kit for smooth muscle cell growth medium:

The supplements are delivered on dry ice. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro supplement kit for smooth muscle cell growth medium is suitable for culturing of human smooth muscle cells (HSMC) **after adding the supplement kit components to 500 ml basal medium**. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

Store the **supplements** at **-20°C**. Do not use the supplements after expiring date.

Special note:

Avoid any thaw/freeze cycle.

Quality control:

Provitro's supplement kit for smooth muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSMC proliferating characteristics. The cells cultured in smooth muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for smooth muscle cell growth medium, HuS

Cat.-Nr.: 216 0601

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine 232 2500 HuS (human serum AB) 243 0025 human rec. EGF (epidermal growth factor) 245 0100 human rec. bFGF (basic fibroblast growth factor) 246 0250 human rec. Insulin 236 0350 Antibiotics (optional)

Maintenance of supplement kit for smooth muscle cell growth medium:

The supplements are delivered on dry ice. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro supplement kit for smooth muscle cell growth medium is suitable for culturing of human smooth muscle cells (HSMC) **after adding the supplement kit components to 500 ml basal medium**. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

Store the **supplements** at **-20°C**. Do not use the supplements after expiring date.

Special note:

Avoid any thaw/freeze cycle.

Quality control:

Provitro's supplement kit for smooth muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSMC proliferating characteristics. The cells cultured in smooth muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for skeletal muscle cell growth medium, FCS

Cat.-Nr.: 215 0602

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine 231 2500 FCS (foetal calf serum) 237 2500 Fetuin 244 0500 human rec. EGF (epidermal growth factor) 245 0050 human rec. bFGF (basic fibroblast growth factor) 246 0500 human rec. Insulin 225 0020 Dexamethasone 236 0350 Antibiotics (optional)

Maintenance of supplement kit for skeletal muscle cell growth medium:

The supplements are delivered on dry ice. Store the **supplements** at **-20°C**.

Characteristics:

The Provitro supplement kit for smooth muscle cell growth medium is suitable for culturing of Provitro human skeletal muscle cells (HSKMC) **after adding the supplement kit components to 500 ml basal medium**. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

Store the **supplements** at **-20°C**. Do not use the supplements after expiring date.

Special note:

Avoid any thaw/freeze cycle.

Quality control:

Provitro's supplement kit for skeletal muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSKMC proliferating characteristics. The cells cultured in skeletal muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for skeletal muscle cell growth medium, HuS

Cat.-Nr.: 216 0602

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine 232 2500 HuS (human serum AB) 237 2500 Fetuin 244 0500 human rec. EGF (epidermal growth factor) 245 0050 human rec. bFGF (basic fibroblast growth factor) 246 0500 human rec. Insulin 225 0020 Dexamethasone 236 0350 Antibiotics (optional)

Maintenance of supplement kit for skeletal muscle cell growth medium:

The supplements are delivered on dry ice. Store the **supplements** at -20°C.

Characteristics:

The Provitro supplement kit for smooth muscle cell growth medium is suitable for culturing of Provitro human skeletal muscle cells (HSKMC) **after adding the supplement kit components to 500 ml basal medium**. The formulation is optimized for initial seeding of 4,000 cells / cm² up to confluence (approx. 90 %). Feeder-layer, matrix substrates or other substances are not necessary. **Due to the possibility of reduced proliferative activity we recommend to use the antibiotic supplement for freshly isolated cells only.**

Stability and storage:

Store the **supplements** at -20°C. Do not use the supplements after expiring date.

Special note:

Avoid any thaw/freeze cycle.

Quality control:

Provitro's supplement kit for skeletal muscle cell growth medium is thoroughly tested after each production. All components are tested in a stringent biological assay. Each batch is checked for HSKMC proliferating characteristics. The cells cultured in skeletal muscle cell growth medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

In vitro laboratory use only.

Not intended for any human or animal diagnostic or therapeutic use.

Supplement kit for skeletal muscle cell differentiation medium, serum-free

Cat.-Nr.: 217 0603

contains of:

Basal media	Supplements
-	222 1000 L-Glutamine 246 0500 human rec. Insulin 236 0350 Antibiotics (optional)

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cytokines, chemokines,
growth factors

cytokines, chemokines, growth factors

OFFER NO.	PRODUCT	SPECIES	SOURCE	SIZE
1165 9500 05	4-1BB Ligand	Human	E. coli	5 µg
1167 9500 05	4-1BB Receptor	Human	E. coli	5 µg
A				
4576 9550 01	ACE2 (biotinylated, glycosylated, HEK, His-Avi-Tag)	Human	HEK	1 µg
4577 9550 50	ACE2 (glycosylated, HEK, Fc-Tag)	Human	HEK	50 µg
4575 9550 50	ACE2 (glycosylated, HEK, His-Tag)	Human	HEK	50 µg
1100 9500 02	Activin A	H/M/R	E. coli	2 µg
4008 9500 02	ADAM-10, His-Tag	Human	E. coli	2 µg
4009 9500 02	ADAM-12	Human	E. coli	2 µg
1105 9250 02	Adiponectin (Acrp30), Flag-Tag (glycosylated)	Porcine	HEK	2 µg
1105 9600 10	Adiponectin (Acrp30), Globular, liquid	Murine	E. coli	10 µg
1105 9500 10	Adiponectin (Acrp30), His-Tag	Human	E. coli	10 µg
1109 9600 05	Adiponectin (Acrp30), His-Tag, liquid	Murine	E. coli	5 µg
1106 9550 02	Adiponectin (Acrp30), Trimeric (glycosylated)	Human	HEK	2 µg
1109 9500 02	Adiponectin, Globular, His-Tag	Human	E. coli	2 µg
1110 9500 05	AITRL	Human	E. coli	5 µg
2835 9550 20	Albumin / HSA (recombinant glycosylated)	Human	HEK	20 µg
2834 9581 08	Albumin / HSA (recombinant plant)	Human	Oryza sativa (rice)	10 g
2835 9581 08	Albumin / HSA ultra pure (recombinant plant)	Human	Oryza sativa (rice)	10 g
2835 9191 08	Albumin serum / BSA	Bovine	Bovine Serum	10 g
2832 9591 08	Albumin serum / HSA	Human	Human Plasma	10 g
2835 9591 66	Albumin serum / HSA, liquid	Human	Human Serum	100 mg
2833 9591 08	Albumin serum / HSA, protease free	Human	Human Plasma	10 g
3000 9500 10	Amphiregulin	Human	E. coli	10 µg
1121 9590 05	ANG-1 (HeLa cells)	Human	HeLa	5 µg
1116 9540 05	ANG-2	Human	CHO	5 µg
1117 9500 02	Angiopoietin-like Protein 3, His-Tag	Human	E. coli	2 µg
1118 9500 02	Angiopoietin-like Protein 4, His-Tag	Human	E. coli	2 µg
4450 9500 20	Angiostatin Kringles 1-3	Human	E. coli	20 µg
4076 9590 02	Angiostatin Kringles 1-4	Human	Human Fluid	2 µg
4016 9550 02	ANGPTL4 (glycosylated, HEK)	Human	HEK	2 µg
4086 9500 05	Annexin 11	Human	E. coli	5 µg
4087 9500 05	Annexin 13	Human	E. coli	5 µg
4077 9500 02	Annexin A1	Human	E. coli	2 µg
4078 9500 01	Annexin A2 (natural)	Human	HAT	1 µg
4079 9500 05	Annexin A3	Human	E. coli	5 µg
4080 9500 02	Annexin A4	Human	E. coli	2 µg
4081 9500 05	Annexin A5	Human	E. coli	5 µg
4082 9500 02	Annexin A6	Human	E. coli	2 µg
4083 9500 05	Annexin A7	Human	E. coli	5 µg
4084 9500 05	Annexin A8	Human	E. coli	5 µg
1984 9191 56	Apo Transferrin (plasma)	Bovine	Natural	150 mg
1130 9500 20	APO-A1	Human	E. coli	20 µg
1130 9590 20	APO-A1 (natural)	Human	Human HDL	20 µg
1130 9600 05	APO-A1, His-Tag	Murine	E. coli	5 µg
1131 9501 00	APO-E2	Human	E. coli	100 µg
1133 9501 00	APO-E4	Human	E. coli	100 µg
1140 9550 02	Apolipoprotein-J (Apo-J)/ Clusterin (glycosylated, HEK), Flag-Tag	Human	HEK	2 µg
1140 9700 02	Apolipoprotein-J (Apo-J)/ Clusterin, His-Tag	Rat	E. coli	2 µg
1135 9500 10	Apo-SAA	Human	E. coli	10 µg
1137 9000 02	Apo-SAA1	Rhesus	E. coli	2 µg
1145 9600 05	APRIL	Murine	E. coli	5 µg
1155 9191 66	Aprotinin/ Pancreatic Trypsin Inhibitor	Bovine	Bovine lung	100 mg
1150 9500 05	Artemin	Human	E. coli	5 µg

1 H/M/R – Human/Murine/Rat 2 HEK – Human embryonic kidney cell line 3 HAT – Human Adipose Tissue 4 CHO – Chinese hamster ovary cell line

cytokines, chemokines, growth factors

OFFER NO.	PRODUCT	SPECIES	SOURCE	SIZE
B				
1160 9500 05	BAFF (BLys, CD257)	Human	E. coli	5 µg
1162 9500 10	BAFF Receptor	Human	E. coli	10 µg
1170 9600 05	BCA-1 / BLC / CXCL13	Murine	E. coli	5 µg
1170 9500 05	BCA-1 / CXCL13	Human	E. coli	5 µg
1175 9500 05	BCMA (TNFRSF17)	Human	E. coli	5 µg
1180 9600 05	BD-1	Murine	E. coli	5 µg
1181 9500 05	BD-1 (47aa)	Human	E. coli	5 µg
4600 9600 05	BD-14	Human	E. coli	5 µg
1181 9601 99	BD-2	Murine	E. coli	1 mg
1183 9500 05	BD-3	Human	E. coli	5 µg
1184 9500 05	BD-4	Human	E. coli	5 µg
4510 9500 05	BD-5	Human	E. coli	5 µg
1185 9500 02	BDNF	H/M/R	E. coli	2 µg
1185 9550 02	BDNF (glycosylated, HEK)	Human	HEK	2 µg
1190 9100 05	Betacellulin	Bovine	E. coli	5 µg
1193 9521 00	BMP receptor-1A, soluble, His-Tag (InCs)	Human	Insect cells	100 µg
1205 9500 10	BMP-13 / CDMP-2 / GDF-6	Human	E. coli	10 µg
1195 9500 05	BMP-2	Human	E. coli	5 µg
1195 9550 02	BMP-2 (glycosylated, HEK)	Human	HEK	2 µg
1194 9500 10	BMP-3	Human	E. coli	10 µg
1197 9540 02	BMP-4 (glycosylated, CHO)	Human	CHO	2 µg
1197 9550 02	BMP-4 (glycosylated, HEK)	Human	HEK	2 µg
1198 9500 05	BMP-5	Human	E. coli	5 µg
1200 9500 02	BMP-7 / OP-1	Human	E. coli	2 µg
1200 9540 02	BMP-7 / OP-1 (glycosylated, CHO)	Human	CHO	2 µg
1200 9550 02	BMP-7 / OP-1 (glycosylated, HEK)	Human	HEK	1 µg
4105 9520 02	BMPR 1A	Human	Insect cells	2 µg
4106 9540 02	BMPR 1A (glycosylated)	Human	CHO	50 µg
1220 9500 05	BRAK / CXCL14	Human	E. coli	5 µg
1215 9500 02	B-Type Natriuretic Protein (BNP)	Human	E. coli	2 µg
1215 9591 09	B-Type Natriuretic Protein (BNP, synthetic)	Human	Synthetic	10 mg
C				
4403 9540 50	C1 Inhibitor Serpin G1 (glycosylated)	Human	CHO	50 µg
4403 9550 10	C1 Inhibitor, Serpin G1, (glycosylated, HEK, His-Tag)	Human	HEK	10 µg
1225 9600 02	C-10 (CCL6)	Murine	E. coli	2 µg
4455 9591 09	C3c	Human	Human Plasma	10 mg
4460 9591 09	C4c	Human	Human Plasma	10 mg
1484 9500 05	C5a	Human	E. coli	5 µg
2980 9700 05	Carboxypeptidase-B	Rat	E. coli	5 mg
1230 9500 02	Cardiotrophin-1, CTF1	Human	E. coli	2 µg
1231 9500 02	Cardiotrophin-1, His-Tag	Human	E. coli	2 µg
4383 9500 05	CCBE1 Fragment, His-Tag	Human	E. coli	5 µg
1640 9500 05	CCL16 / LEC / NCC-4	Human	E. coli	5 µg
4120 9500 20	CCM-2, His-Tag	Human	E. coli	20 µg
4121 9500 20	CCM-3, His-Tag	Human	E. coli	20 µg
1260 9520 05	CD105 / Endoglin, soluble (InCs) His-Tag	Human	Insect cells	5 µg
1239 9540 10	CD14, soluble (glycosylated)	Human	CHO	10 µg
1240 9520 01	CD22 soluble (glycosylated) His-Tag	Human	Insect cells	1 µg
1241 9500 05	CD23, soluble	Human	E. coli	5 µg
2065 9500 05	CD34 soluble His-Tag	Human	E. coli	5 µg
1237 9500 05	CD4 (125-202), His-Tag	Human	E. coli	5 µg
1238 9500 05	CD4 (203-317), His-Tag	Human	E. coli	5 µg
1251 9500 02	CD40 TNFRSF5, His-Tag	Human	E. coli	2 µg

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cytokines, chemokines, growth factors

OFFER NO.	PRODUCT	SPECIES	SOURCE	SIZE
1250 9500 10	CD40-Ligand soluble / TRAP	Human	E. coli	10 µg
3010 9500 05	CDNF	Human	E. coli	5 µg
1280 9500 05	CNTF / Ciliary Neurotrophic Factor	Human	E. coli	5 µg
4061 9531 09	Collagen III (mature)	Human	Yeast, Pichia pastoris	10 mg
4060 9500 02	Collagen Type IV alpha 3	Human	Insect cells	2 µg
4049 9500 02	C-SRC Tyrosine Kinase	Human	E. coli	2 µg
1295 9600 05	CTACK / CCL27	Murine	E. coli	5 µg
1295 9500 05	CTACK / CCL27 (liquid)	Human	E. coli	5 µg
1300 9500 05	CTGF (98aa)	Human	E. coli	5 µg
4062 9550 02	CTGF (glycosylated, HEK)	Human	HEK	2 µg
1301 9500 02	CTGF, His-Tag,	Human	E. coli	5 µg
1305 9500 05	CTGFL / WISP-2	Human	E. coli	5 µg
1310 9520 02	CTLA-4 (InCs) His-Tag	Human	Insect cells	2 µg
1315 9500 05	CXCL16	Human	E. coli	5 µg
1320 9500 05	CYR61	Human	E. coli	5 µg
4100 9500 05	Cystatin-A, His-Tag	Human	E. coli	5 µg
4102 9620 02	Cystatin-C (active)	Murine	Insect cells	2 µg
4103 9700 02	Cystatin-C, His-Tag	Rat	E. coli	2 µg
D				
4104 9520 02	DPP4	Human	Insect cells	2 µg
4104 9590 02	DPP4, nativ	Human	Human Placenta	0,002 µg
E				
4051 9500 02	E-Cadherin	Human	E. coli	2 µg
1325 9501 00	EGF	Human	E. coli	100 µg
1325 9531 00	EGF (Yeast)	Human	Yeast, Pichia pastoris	100 µg
4530 9501 00	EGF, cct-premium	Human	E. coli	100 µg
2100 9520 10	EGFR soluble (InCs)	Human	Insect cells	10 µg
2295 9520 01	EGFR, GST-Tag, liquid (InCs)	Human	Insect cells	1 µg
1326 9500 05	EG-VEGF / Prokineticin-1	Human	E. coli	5 µg
1330 9500 05	EMAP-II	Human	E. coli	5 µg
1337 9600 05	ENA-78 / CXCL5	Murine	E. coli	5 µg
1335 9500 05	ENA-78 / CXCL5 (5-78aa)	Human	E. coli	5 µg
1337 9500 05	ENA-78 / CXCL5 (8-78aa)	Human	E. coli	5 µg
1331 9500 20	Endostatin	Human	E. coli	20 µg
1340 9500 05	Eotaxin / CCL11	Human	E. coli	5 µg
1343 9500 05	Eotaxin-2 / CCL24	Human	E. coli	5 µg
1343 9700 05	Eotaxin-2/ CCL24	Rat	E. coli	5 µg
1344 9500 10	Eotaxin-3 / CCL26	Human	E. coli	10 µg
1348 9500 05	Epigen / EPG	Human	E. coli	5 µg
1352 9500 05	Epiregulin	Human	E. coli	5 µg
1346 9540 05	Erythropoietin, EPO-a (glycosylated, CHO)	Human	CHO	5 µg
4107 9550 02	Erythropoietin, EPO-a (glycosylated, HEK)	Human	HEK	2 µg
1345 9540 02	Erythropoietin, EPO-a-Fc (glycosylated, CHO)	Human	CHO	2 µg
4063 9520 50	ESM-1 / Endocan His-Tag	Human	Insect cells	50 µg
2250 9500 20	Exendin-4	Human	E. coli	20 µg
1350 9500 05	Exodus-2 / CCL21	Human	E. coli	5 µg
F				
1355 9550 02	Fas Ligand, soluble (glycosylated, HEK)	Human	HEK	2 µg
1356 9500 05	Fas Receptor	Human	E. coli	5 µg
3060 9550 10	Fetuin-A/AHSG (glycosylated, HEK)	Human	HEK	10 µg
1379 9500 10	FGF-10 / KGF-2	Human	E. coli	10 µg
4673 9500 20	FGF-11, Isoform 1	Human	E. coli	20 µg
4674 9500 20	FGF-11, Isoform 2	Human	E. coli	20 µg
4670 9500 10	FGF-12, liquid, His-Tag	Human	E. coli	10 µg

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cytokines, chemokines, growth factors

OFFER NO.	PRODUCT	SPECIES	SOURCE	SIZE
1363 9500 05	FGF-13	Human	E. coli	5 µg
4671 9500 10	FGF-14, liquid, His-Tag	Human	E. coli	10 µg
1380 9500 05	FGF-16, liquid	Human	E. coli	5 µg
1381 9500 05	FGF-17	Human	E. coli	5 µg
1382 9500 05	FGF-18	Human	E. coli	5 µg
1383 9500 05	FGF-19	Human	E. coli	5 µg
1384 9500 03	FGF-20	Human	E. coli	3 µg
1388 9100 02	FGF-21	Bovine	E. coli	2 µg
1386 9500 02	FGF-22	Human	E. coli	2 µg
1394 9500 05	FGF-23	Human	E. coli	5 µg
1372 9500 10	FGF-4	Human	E. coli	10 µg
1372 9600 05	FGF-4 (His-Tag)	Murine	E. coli	5 µg
1373 9500 10	FGF-5	Human	E. coli	10 µg
1374 9500 05	FGF-6	Human	E. coli	5 µg
1376 9600 05	FGF-8 (246 aa)	Murine	E. coli	5 µg
1376 9550 02	FGF-8 (glycosylated, HEK)	Human	HEK	2 µg
1376 9500 05	FGF-8b	Human/Murine	E. coli	5 µg
1378 9500 05	FGF-9	Human	E. coli	5 µg
1360 9190 01	FGF-acidic / FGF-1	Bovine	Bovine Brain	1 µg
1370 9100 10	FGF-basic / FGF-2	Bovine	E. coli	10 µg
1370 9190 02	FGF-basic / FGF-2 (natural)	Bovine	Bovine Pituitary	2 µg
1370 9500 10	FGF-basic, cct-premium, FGF-2	Human	E. coli	10 µg
1369 9500 50	FGF-basic, FGF-2	Human	E. coli	50 µg
4404 9500 10	FGF-basic, FGF-2 (147aa)	Human	E. coli	10 µg
1369 9550 02	FGF-basic, FGF-2 (glycosylated, HEK)	Human	HEK	2 µg
1368 9500 10	FGF-basic-thermostable, FGF-2-thermostable	Human	E. coli	10 µg
1390 9520 10	FGFR-1 / Fc Chimera, soluble	Human	Insect cells	10 µg
1391 9520 10	FGFR-2 (IIIb) / Fc Chimera, soluble	Human	Insect cells	10 µg
1392 9520 10	FGFR-3 (IIIc) / Fc Chimera, soluble	Human	Insect cells	10 µg
1393 9520 10	FGFR-4 / Fc Chimera (InCs)	Human	Insect cells	10 µg
4065 9191 09	Fibronectin	Bovine	Bovine Plasma	10 mg
1395 9520 05	Flt-1 (native) sVEGFR-1 (InCs)	Human	Insect cells	5 µg
1396 9520 05	Flt-1 / VEGFR-1 soluble (D3) (InCs)	Human	Insect cells	5 µg
1397 9520 05	Flt-1 / VEGFR-1 soluble (D4) (InCs)	Human	Insect cells	5 µg
1398 9520 05	Flt-1 / VEGFR-1 soluble (D5) (InCs)	Human	Insect cells	5 µg
1399 9520 10	Flt-1/VEGFR-1 (D7)-FC Chimera, soluble	Human	Insect cells	10 µg
1400 9000 50	Flt3-Ligand	Rhesus	E. coli	2 µg
1400 9550 02	Flt3-Ligand (glycosylated, HEK)	Human	HEK	2 µg
1402 9520 05	Flt-4 / sVEGFR-3, soluble (InCs)	Human	Insect cells	5 µg
1403 9520 10	Flt-4/Fc Chimera, sVEGFR-3 (InCs)	Human	Insect cells	10 µg
1405 9500 05	Follistatin	Human	E. coli	5 µg
1410 9500 05	Fractalkine / CX3CL1	Human	E. coli	5 µg
2260 9550 02	FSH (glycosylated)	Human	HEK	2 µg
2265 9291 07	FSH (natural)	Porcine	Porcine Pituitaries	100 U
3067 9520 02	Furin, His-Tag	Human	E. coli	5 µg
G				
1415 9500 05	gAcrp30 / Adipolean (globular)	Human	E. coli	5 µg
1416 9500 05	gAcrp30 / Adipolean Variant	Human	E. coli	5 µg
1421 9500 10	Galectin-1, LGALS1	Human	E. coli	10 µg
1423 9500 10	Galectin-3	Human	E. coli	10 µg
1425 9100 50	GCP-2 / CXCL6	Bovine	E. coli	50 µg
1430 9000 02	G-CSF	Rhesus	E. coli	2 µg
1430 9550 02	G-CSF (glycosylated, HEK)	Human	HEK	2 µg
1439 9500 05	GDF-11, BMP-11	H/M/R	E. coli	5 µg

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cytokines, chemokines, growth factors

OFFER NO.	PRODUCT	SPECIES	SOURCE	SIZE
1437 9500 05	GDF-15 / MIC-1	Human	E. coli	5 µg
1437 9550 20	GDF-15 / MIC-1 (glycosylated, HEK)	Human	HEK	20 µg
1434 9540 02	GDF-2 (glycosylated)	Human	CHO	2 µg
1435 9500 05	GDF-3	Human	E. coli	5 µg
1206 9600 10	GDF-5 (BMP-14/CDMP-1)	Murine	E. coli	10 µg
1206 9500 10	GDF-5 / BMP-14 / CDMP-1	Human	E. coli	10 µg
1206 9601 00	GDF-5 / BMP-14/CDMP-1	Murine	E. coli	100 µg
3068 9500 02	GDF-7	Human	E. coli	2 µg
1440 9500 02	GDNF	Human	E. coli	2 µg
4480 9570 02	GLP-1 (1-37aa)	Human	synthetic	2 µg
4481 9571 66	GLP-1 (30aa)	Human	synthetic	100 mg
1441 9500 10	GLP-1 (7-37aa)	Human	E. coli	10 µg
4485 9571 66	GLP-2 (34aa)	Human	synthetic	100 mg
4317 9500 02	Glypican-4, GPC-4, (165aa, His-Tag)		E. coli	2 µg
1450 9000 02	GM-CSF	Rhesus	E. coli	2 µg
4535 9550 02	GM-CSF (glycosylated, HEK)	Human	HEK	2 µg
1450 9520 05	GM-CSF (glycosylated, His-Tag)	Human	Insect cells	5 µg
1450 9500 25	GM-CSF, cct-premium	Human	E. coli	25 µg
1450 9510 10	GM-CSF, cct-premium (HSA)	Human	E. coli	10 µg
1451 9500 02	GMF-beta	Human	E. coli	2 µg
1452 9500 05	Granzyme B	Human	E. coli	5 µg
1452 9620 02	Granzyme B (InCs)	Murine	Insect cells	2 µg
4412 9500 50	Gremlin-1	Human	E. coli	50 µg
1455 9501 99	GRO-alpha / CXCL1	Human	E. coli	1 mg
1455 9700 05	GRO-alpha / KC / CXCL1	Rat	E. coli	5 µg
1455 9500 05	GRO-alpha/CXCL1	Human	E. coli	5 µg
1460 9500 02	GRO-beta / CXCL2	Human	E. coli	2 µg
1460 9600 05	GRO-beta / MIP-2a / CXCL2	Murine	E. coli	5 µg
1462 9500 02	GRO-gamma / CXCL3	Human	E. coli	2 µg
1442 9000 05	Growth Hormone	Denis	E. coli	5 µg
1445 9550 02	Growth Hormone (glycosylated, HEK)	Human	HEK	2 µg
1445 9900 20	Growth Hormone (Somatotropin)	Ovine	E. coli	20 µg
1444 9400 20	Growth Hormone Antagonist	Chicken	E. coli	20 µg
1449 9500 05	Growth Hormone Binding Protein	Human	E. coli	5 µg
1446 9500 10	Growth Hormone Pituitary 20 kDa	Human	E. coli	10 µg
1447 9500 10	Growth Hormone Placental 20 kDa	Human	E. coli	10 µg
1448 9500 10	Growth Hormone Placental 22 kDa	Human	E. coli	10 µg
H				
1465 9500 10	HB-EGF	Human	E. coli	10 µg
1459 9500 02	HCC-1 / CCL14 (66aa)	Human	E. coli	2 µg
1466 9500 02	HCC-1 / CCL14 (72aa)	Human	E. coli	2 µg
4490 9500 05	Heregulin alpha / Neuregulin-1	Human	E. coli	5 µg
1467 9500 10	Heregulin beta-1 / Neuregulin-1	Human	E. coli	10 µg
4495 9500 10	Heregulin beta-2 / Neuregulin-1	Human	E. coli	10 µg
1468 9620 05	HGF	Murine	Insect cells	5 µg
1468 9550 02	HGF (glycosylated, HEK)	Human	HEK	2 µg
2790 9520 05	HGF (glycosylated, InCs)	Human	Insect cells	5 µg
1468 9290 02	HGF promoting	Porcine	Pig Liver	2 µg
2791 9520 25	HGF, cct-premium (glycosylated, InCs)	Human	Insect cells	25 µg
4021 9500 10	HIF1A	Human	E. coli	10 µg
4023 9500 10	HIF1AN	Human	E. coli	10 µg
4109 9500 10	HMOX1 / HSP32	Human	E. coli	10 µg
4110 9500 05	HMOX2	Human	E. coli	5 µg
1983 9191 77	Holo Transferrin (plasma)	Bovine	Natural	150 mg

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cytokines, chemokines, growth factors

OFFER NO.	PRODUCT	SPECIES	SOURCE	SIZE
4027 9500 10	HSP27	Human	E. coli	10 µg
2233 9500 05	IFN Reg. Factor-1, liquid	Human	E. coli	5 µg
2234 9500 05	IFN Reg. Factor-2, liquid	Human	E. coli	5 µg
2235 9500 05	IFN Reg. Factor-3, liquid	Human	E. coli	5 µg
2227 9500 20	IFN-alpha 1a	Human	E. coli	20 µg
1470 9500 20	IFN-alpha 1b	Human	E. coli	20 µg
1471 9500 20	IFN-alpha 2a	Human	E. coli	20 µg
1473 9530 10	IFN-alpha 2b (Yeast)	Human	Yeast	10 µg
1474 9540 05	IFN-beta 1a (glycosylated)	Human	CHO	5 µg
1475 9500 02	IFN-beta 1b	Human	E. coli	2 µg
1476 9000 10	IFN-gamma	Rhesus	E. coli	10 µg
1478 9500 05	IFN-lambda-1 / IL-29	Human	E. coli	5 µg
1479 9500 05	IFN-lambda-2 / IL-28A	Human	E. coli	5 µg
1477 9900 02	IFN-tau	Ovine	E. coli	2 µg
1482 9500 20	IGF Des (1-3)	Human	E. coli	20 µg
1485 9580 05	IGF-BP1, glycosylated, NSO	Human	NSO	5 µg
1487 9500 05	IGF-BP3	Human	E. coli	5 µg
1488 9550 05	IGF-BP4 (glycosylated, HEK)	Human	HEK	5 µg
1488 9520 05	IGF-BP4 (glycosylated, InCs)	Human	Insect cells	2 µg
1489 9500 05	IGF-BP5	Human	E. coli	5 µg
1490 9500 05	IGF-BP6	Human	E. coli	5 µg
1491 9500 05	IGF-BP7	Human	E. coli	5 µg
1480 9501 00	IGF-I	Human	E. coli	100 µg
1483 9501 99	IGF-I LR3	Human	E. coli	1 mg
1481 9500 10	IGF-II	Human	E. coli	10 µg
1495 9200 02	IL-1 alpha	Porcine	E. coli	2 µg
1500 9200 02	IL-1 beta	Porcine	E. coli	2 µg
1500 9510 10	IL-1 beta, cct-premium (HSA)	Human	E. coli	10 µg
1501 9500 20	IL-1 receptor Antagonist	Human	E. coli	20 µg
1541 9500 02	IL-10	Human	E. coli	2 µg
1541 9550 02	IL-10 (glycosylated, HEK)	Human	HEK	2 µg
1542 9500 02	IL-11	Human	E. coli	2 µg
1545 9620 02	IL-12 p70 (glycosylated, HEK)	Murine	HEK	2 µg
1545 9550 02	IL-12 p70, (glycosylated, HEK)	Human	HEK	2 µg
1550 9510 02	IL-13	Human	E. coli	2 µg
1550 9700 02	IL-13 (109aa)	Rat	E. coli	2 µg
1557 9700 02	IL-13 (113aa)	Rat	E. coli	2 µg
1551 9500 02	IL-13 variant (increased activity)	Human	E. coli	2 µg
1555 9500 02	IL-15	Human	E. coli	2 µg
1555 9550 02	IL-15 (glycosylated, HEK)	Human	HEK	2 µg
1561 9000 02	IL-16	Rhesus	E. coli	2 µg
1560 9500 02	IL-16 (121aa)	Human	E. coli	2 µg
1561 9500 02	IL-16 (130aa)	Human	E. coli	2 µg
1564 9500 02	IL-17A / F (heterodimer)	Human	E. coli	2 µg
1565 9700 05	IL-17A / IL-17	Rat	E. coli	5 µg
1565 9500 05	IL-17A / IL-17 (2x132aa)	Human	E. coli	5 µg
1565 9600 05	IL-17A / IL-17 (2x134aa)	Murine	E. coli	5 µg
1566 9500 05	IL-17B	Human	E. coli	5 µg
1568 9500 05	IL-17D	Human	E. coli	5 µg
1569 9500 05	IL-17E / IL-25	Human	E. coli	5 µg
1569 9600 05	IL-17E / IL-25	Murine	E. coli	5 µg
1570 9500 05	IL-17F	Human	E. coli	5 µg
1576 9500 05	IL-18	Human	E. coli	5 µg

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cytokines, chemokines, growth factors

OFFER NO.	PRODUCT	SPECIES	SOURCE	SIZE
1580 9500 02	IL-19	Human	E. coli	2 µg
1505 9200 02	IL-2	Porcine	E. coli	2 µg
1505 9550 02	IL-2 (glycosylated, HEK)	Human	HEK	2 µg
1503 9500 10	IL-2 cct-premium	Human	E. coli	10 µg
1503 9510 10	IL-2 cct-premium (HSA)	Human	E. coli	10 µg
1507 9520 05	IL-2 Receptor, soluble (InCs)	Human	Insect cells	5 µg
1582 9500 02	IL-20	Human	E. coli	2 µg
1584 9500 02	IL-21	Human	E. coli	2 µg
1586 9500 02	IL-22	Human	E. coli	2 µg
1585 9500 02	IL-22 Antagonist / E117A	Human	E. coli	2 µg
1587 9550 02	IL-23 (glycosylated, HEK)	Human	HEK	2 µg
1588 9530 02	IL-24, glycosylated, Yeast	Human	Yeast	2 µg
1590 9500 10	IL-25 / SF20	Human	E. coli	10 µg
4440 9600 02	IL-27	Murine	E. coli	2 µg
4440 9550 01	IL-27 (glycosylated, HEK)	Human	HEK	1 µg
1510 9000 02	IL-3	Rhesus	E. coli	2 µg
1509 9550 02	IL-3 (glycosylated, HEK)	Human	HEK	2 µg
1510 9700 05	IL-3 , IL-3 beta	Rat	E. coli	5 µg
1509 9500 10	IL-3, cct-premium	Human	E. coli	10 µg
1509 9510 10	IL-3, cct-premium (HSA)	Human	E. coli	10 µg
1595 9500 02	IL-31	Human	E. coli	2 µg
1598 9500 02	IL-33	Human	E. coli	2 µg
1599 9500 02	IL-34	Human	E. coli	2 µg
1599 9550 02	IL-34 (glycosylated, HEK)	Human	HEK	2 µg
1594 9550 02	IL-35 (glycosylated, HEK)	Human	HEK	2 µg
1515 9000 02	IL-4	Rhesus	E. coli	2 µg
1515 9550 02	IL-4 (glycosylated, HEK)	Human	HEK	2 µg
1516 9510 08	IL-4 cc	Human	E. coli	8 µg
1517 9550 03	IL-4 Receptor alpha, soluble (glycosylated, HEK)	Human	HEK	3 µg
1515 9500 05	IL-4, cct-premium	Human	E. coli	5 µg
1515 9510 05	IL-4, cct-premium (HSA)	Human	E. coli	5 µg
1520 9000 02	IL-5	Rhesus	E. coli	2 µg
1524 9500 05	IL-6	Human	E. coli	5 µg
1525 9550 02	IL-6 (glycosylated, HEK)	Human	HEK	2 µg
1526 9510 10	IL-6 cc	Human	E. coli	10 µg
1525 9500 05	IL-6 cct-premium	Human	E. coli	5 µg
1525 9510 25	IL-6 cct-premium (HSA)	Human	E. coli	25 µg
1527 9550 05	IL-6 Receptor alpha, soluble, glycosylated, HEK	Human	HEK	5 µg
1530 9500 02	IL-7	Human	E. coli	2 µg
1530 9550 02	IL-7 (glycosylated, HEK)	Human	HEK	2 µg
1535 9200 05	IL-8 (72aa) / CXCL8	Porcine	E. coli	5 µg
1536 9500 05	IL-8 (77aa) / CXCL8	Human	E. coli	5 µg
1540 9500 02	IL-9	Human	E. coli	2 µg
4515 9000 05	Indian Hedgehog	Human	E. coli	5 µg
1493 9291 88	Insulin, natural; pancreas	Porcine	Porcine Pancreas	1 g
1493 9501 88	Insulin, recombinant	Human	E. coli	1 g
1600 9000 05	IP-10 / CXCL10	Rhesus	E. coli	5 µg
4505 9530 02	Irisin	H/M/R	Yeast	2 µg
1605 9500 05	I-TAC / CXCL11	Human	E. coli	5 µg
J				
4029 9500 01	JNK2/SAPK1	Human	E. coli	1 µg
K				
4091 9550 05	Kallikrein 11	Human	E. coli	5 µg
4090 9550 02	Kallikrein 7	Human	E. coli	5 µg

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4088 9530 20	Kallikrein-1	Human	Yeast, Pichia pastoris	20 µg
1455 9600 05	KC / CXCL1	Murine	E. coli	5 µg
1620 9520 05	KDR (D7) / VEGFR-2 soluble (InCs)	Human	Insect cells	5 µg
1621 9520 10	KDR-Fc Chimera / VEGFR-2 soluble (InCs)	Human	Insect cells	10 µg
1375 9500 02	KGF / FGF-7	Human	E. coli	2 µg
1375 9550 02	KGF / FGF-7 (glycosylated, HEK)	Human	HEK	2 µg
1628 9540 05	Klotho (glycosylated)	Human	CHO	5 µg
L				
1630 9500 05	LAG-1 / CCL4L1	Human	E. coli	5 µg
1635 9500 05	LD78-beta / CCL3L1	Human	E. coli	5 µg
1650 9000 20	Leptin	Equine	E. coli	20 µg
1650 9571 99	Leptin (synthetic)	Human	synthetic	1 mg
1647 9500 05	Leptin Binding Domain	Human	E. coli	5 µg
1647 9400 05	Leptin Binding Domain / Receptor	Chicken	E. coli	5 µg
1648 9500 10	Leptin Quadruple Antagonist	Human	E. coli	10 µg
1649 9500 10	Leptin Triple Antagonist	Human	E. coli	10 µg
1646 9600 05	Leptin Triple Antagonist PEG	Murine	E. coli	5 µg
2285 9540 20	LFA-3, glycosylated, CHO	Human	CHO	20 µg
2270 9571 09	LHRH	Human	synthetic	10 mg
2805 9500 10	LIF	Human	E. coli	10 µg
4073 9500 02	Lipocalin-2	Human	E. coli	2 µg
2135 9520 20	LYVE-1 soluble (glycosylated, his-tag)	Human	Insect cells	20 µg
M				
4072 9591 09	Macroglobulin alpha 2	Human	Human Plasma	10 mg
3065 9500 05	MANF	Human	E. coli	5 µg
1672 9500 05	Maspin / Serpin B5	Human	E. coli	5 µg
1610 9700 02	MCP-1 / CCL2 / MCAF	Rat	E. coli	2 µg
1610 9600 02	MCP-1 / JE / CCL2	Murine	E. coli	2 µg
1610 9500 05	MCP-1 / MCAF / CCL2	Human	E. coli	5 µg
1675 9500 02	M-CSF	Human	E. coli	2 µg
1675 9550 02	M-CSF (glycosylated, HEK)	Human	HEK	2 µg
4540 9500 05	MDG-1	Human	E. coli	5 µg
2021 V200 50	Membrane and Envelope Protein (His-Tag)	SARS-CoV-2	E. coli	50 µg
4126 9520 10	MesP1 (glycosylated)	Human	Insect cells	10 µg
4074 9000 05	Methionin Aminopeptidase	E. coli	E. coli	5 µg
4071 9590 20	Microglobulin alpha 1	Human	Human urine	20 µg
1698 9500 05	Midkine	Human	E. coli	5 µg
1701 9500 10	MIF	Human	E. coli	10 µg
1705 9500 05	MIG / CXCL9	Human	E. coli	5 µg
4610 9500 05	MIP-1 alpha / CCL3	Human	E. coli	5 µg
4615 9500 02	MIP-1 beta / CCL4	Human	E. coli	2 µg
4620 9500 05	MIP-1 gamma	Murine	E. coli	5 µg
1460 9000 10	MIP-2	Viral	E. coli	10 µg
4625 9500 05	MIP-3 / CCL23	Human	E. coli	5 µg
4630 9500 05	MIP-3 alpha / CCL20	Human	E. coli	5 µg
4635 9500 05	MIP-3 beta / CCL19	Human	E. coli	5 µg
4640 9500 02	MIP-4 / CCL18	Human	E. coli	2 µg
4650 9500 05	MIP-5 / CCL15	Human	E. coli	5 µg
4651 9500 05	MIP-5 / CCL15 (truncated, increased activity, 68aa)	Human	E. coli	5 µg
4032 9520 01	Mitogen Activated Kinase (MEK1)	Human	Insect cells	1 µg
2145 9550 02	MMP-3 (glycosylated, HEK)	Human	HEK	2 µg
2150 9500 02	MMP-9, His-Tag, liquid	Human	E. coli	2 µg
1725 9500 02	Myostatin / GDF-8	H/M/R	E. coli	2 µg
1725 9550 02	Myostatin / GDF-8 (glycosylated, HEK)	H/M/R	HEK	2 µg

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OFFER NO.	PRODUCT	SPECIES	SOURCE	SIZE
1726 9500 05	Myostatin Propeptide	Human	E. coli	5 µg
1726 9550 02	Myostatin Propeptide (glycosylated, HEK)	Human	HEK	2 µg
N				
1964 9500 02	Neuregulin-4	Human	E. coli	2 µg
1765 9500 05	Neuritin-1 / NRN1	Human	E. coli	5 µg
1737 9500 02	Neuroglobin	Human	E. coli	2 µg
1770 9520 05	Neuropilin-1 /NRP1 (glycosylated, InCs)	Human	Insect cells	5 µg
4655 9600 50	Neuropoietin/Cardiotrophin-2	Murine	E. coli	50 µg
1772 9500 05	Neurturin	Human	E. coli	5 µg
1746 9500 02	NGF precursor	Human	E. coli	2 µg
1745 9500 20	NGF-beta	Human	E. coli	20 µg
1745 9540 05	NGF-beta (glycosylated, CHO)	Human	CHO	5 µg
1745 9550 05	NGF-beta (glycosylated, HEK)	Human	HEK	5 µg
1745 9690 05	NGF-beta (natural; gland)	Murine	Mouse gland	5 µg
1775 9500 02	NNT-1 / BCSF-3	Human	E. coli	2 µg
1750 9500 05	Noggin	Human	E. coli	5 µg
1750 9550 05	Noggin (glycosylated, HEK)	Human	HEK	5 µg
1750 9520 02	Noggin (glycosylated, InCs)	Human	Insect cells	2 µg
1755 9600 05	NOV	Murine	E. coli	5 µg
1755 9500 05	NOV / IGFBP-9	Human	E. coli	5 µg
1755 9550 02	NOV / IGFBP-9 (glycosylated, HEK)	Human	HEK	2 µg
1760 9500 05	NP-1	Human	E. coli	5 µg
1780 9500 02	NT-3 / Neurotrophin-3	Human	E. coli	2 µg
1781 9500 02	NT-4 / Neurotrophin-4	Human	E. coli	2 µg
2007 V200 50	Nucleocapsid (nCoV-S2 nucleocapsid, His-Tag)	SARS-CoV-5	E. coli	50 µg
2014 V201 00	Nucleocapsid protein (nCoV-S2 nucleocapsid Protein, NP)	SARS-CoV-8	E. coli	100 µg
O				
1783 9500 02	Omentin	Human	E. coli	2 µg
1796 9600 02	Oncostatin M (181aa)	Murine	E. coli	2 µg
1784 9500 02	Oncostatin M (195aa)	Human	E. coli	2 µg
1785 9500 02	Oncostatin M (209aa)	Human	E. coli	2 µg
1786 9500 02	Oncostatin M (227aa)	Human	E. coli	2 µg
2340 9550 10	Osteopontin (glycosylated, HEK)	Human	HEK	10 µg
1795 9500 10	Osteoprotegerin / OPG	Human	E. coli	10 µg
1794 9550 02	Osteoprotegerin / OPG (glycosylated, HEK)	Human	HEK	2 µg
1794 9500 10	Osteoprotegerin / OPG, His-Tag	Human	E. coli	10 µg
1790 9500 05	OTOR / Otoraplin / MIAL	Human	E. coli	5 µg
4555 9520 02	OX40 Ligand Receptor /TNFRSF4 (glycosylated)	Human	Insect cells	2 µg
1793 9520 02	OX40 Ligand soluble (glycosylated)	Human	Insect cells	2 µg
P				
1788 9500 05	p16-INK4a	Human	E. coli	5 µg
4560 9500 05	p16-INK4a, TAT	Human	E. coli	5 µg
4033 9500 01	p38a/SAPK2	Human	E. coli	1 µg
4025 9500 02	p59-Fyn	Human	E. coli	2 µg
4075 9500 05	PA2G4	Human	E. coli	5 µg
1799 9550 05	PAF-AH (glycosylated, HEK)	Human	HEK	5 µg
1797 9500 02	PAI-1 / Serpin E1	Human	E. coli	5 µg
1798 9500 02	PAI-2 / Serpin B2	Human	E. coli	2 µg
1807 9500 05	PDGF-A	Human	E. coli	5 µg
1800 9500 05	PDGF-AA	Human	E. coli	5 µg
1801 9500 05	PDGF-AB	Human	E. coli	5 µg
1802 9500 05	PDGF-BB	Human	E. coli	5 µg
1802 9530 50	PDGF-BBy (Yeast)	Human	Yeast	50 µg
1806 9500 05	PDGF-CC	Human	E. coli	5 µg

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OFFER NO.	PRODUCT	SPECIES	SOURCE	SIZE
4034 9500 05	PDK-1	Human	E. coli	10 µg
4112 9500 05	PEDF	Human	E. coli	5 µg
4112 9550 02	PEDF (glycosylated, HEK)	Human	HEK	2 µg
1804 9500 02	Periostin, His-Tag, FP	Human	E. coli	2 µg
1805 9500 05	Persephin	Human	E. coli	5 µg
4092 9500 05	Phosphoglycerate Kinase 1	Human	E. coli	5 µg
1814 9000 50	Placental Lactogen (PL)	Caprine	E. coli	50 µg
1820 9500 05	Pleiotrophin / PTN	Human	E. coli	5 µg
4000 9620 02	PIGF	Murine	Insect cells	2 µg
1815 9520 05	PIGF-1 (glycosylated)	Human	Insect cells	5 µg
1816 9520 05	PIGF-1, his-tag (InCs)	Human	Insect cells	5 µg
1817 9540 05	PIGF-2 (glycosylated, CHO)	Human	CHO	5 µg
4059 9500 05	Podoplanin soluble, his-tag	Human	E. coli	5 µg
4545 9500 20	PRAME	Human	E. coli	20 µg
1840 9500 02	Progranulin /PRGN (glycosylated, HEK)	Human	HEK	2 µg
1830 9000 10	Prolactin	Rabbit	E. coli	10 µg
1832 9900 10	Prolactin Antagonist	Ovine	E. coli	10 µg
1831 9000 05	Prolactin Receptor	Rabbit	E. coli	5 µg
1833 9500 05	Prolactin, His-Tag	Human	E. coli	5 µg
4035 9520 02	Protein Kinase C alpha (PKC-α)	Human	Insect cells	2 µg
4043 9500 01	PTEN His-tag	Human	E. coli	1 µg
R				
1855 9500 02	RANK Ligand soluble	Human	E. coli	2 µg
1856 9500 20	RANK Receptor soluble	Human	E. coli	20 µg
1860 9000 05	RANTES / CCL5	Rhesus	E. coli	5 µg
1996 9500 05	Relaxin-2	Human	E. coli	5 µg
1997 9500 05	Relaxin-2, His-Tag, liquid	Human	E. coli	5 µg
1995 9500 05	Relaxin-3 / Insulin-like peptide-7	Human	E. coli	5 µg
1870 9600 05	RELM-alpha	Murine	E. coli	5 µg
1871 9500 05	RELM-beta	Human	E. coli	5 µg
1872 9600 05	RELM-gamma	Murine	E. coli	5 µg
1875 9500 05	Resistin	Human	E. coli	5 µg
4450 9540 05	R-Spondin-1 (glycosylated, CHO)	Human	CHO	5 µg
4410 9540 05	R-Spondin-2 (glycosylated, CHO)	Human	CHO	5 µg
4455 9540 05	R-Spondin-3 (glycosylated, CHO)	Human	CHO	5 µg
4455 9550 05	R-Spondin-3 (glycosylated, HEK)	Human	HEK	5 µg
S				
4093 9500 02	S100A10	Human	E. coli	2 µg
1885 9500 02	SCF	Human	E. coli	2 µg
1885 9550 02	SCF (glycosylated, HEK)	Human	HEK	2 µg
1884 9500 02	SCF, cct-premium	Human	E. coli	2 µg
1884 9510 10	SCF, cct-premium (HSA)	Human	E. coli	10 µg
1890 9500 02	SCGF-alpha	Human	E. coli	2 µg
1891 9500 02	SCGF-beta	Human	E. coli	2 µg
1895 9500 02	SDF-1-alpha / CXCL12	Human	E. coli	2 µg
1896 9500 02	SDF-1-beta / CXCL12	Human	E. coli	2 µg
1445 9300 10	Seabream Growth Hormone	Gildhead	E. coli	10 µg
1480 9300 10	Seabream IGF-I	Gildhead	E. coli	10 µg
4096 9591 00	Serpin A1	Human	Human Serum	100 µg
4095 9560 20	Serpin A1, active	Human	Oryza sativa (rice)	20 µg
4046 9500 02	SMAD2	Human	E. coli	2 µg
4047 9500 05	SMAD3	Human	E. coli	5 µg
4048 9500 10	SMAD4	Human	E. coli	10 µg
4114 9571 09	Somatostatin (SST)	Human	synthetic	10 mg

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1591 9500 05	Sonic Hedgehog / Shh	Human	E. coli	5 µg
2990 9500 50	SPARC/Osteonectin	Human	E. coli	50 µg
2990 9540 10	SPARC/Osteonectin (glycosylated, CHO)	Human	CHO	10 µg
2012 V200 50	Spike 1000-1200 (nCoV-S2 Spike 1000-1200, His-Tag)	SARS-CoV-9	E. coli	50 µg
2011 V200 50	Spike 800-1000 (nCoV-S2 Spike 800-1000, His-Tag)	SARS-CoV-12	E. coli	50 µg
2008 V200 50	Spike E-Mosaic (nCoV-S2 Spike E-Mosaic, His-Tag)	SARS-CoV-15	E. coli	50 µg
2219 V200 02	Spike Glycoprotein-S1 (16-685, biotinylated, glycosylated, HEK)	SARS-CoV-18	HEK	2 µg
2119 V200 02	Spike Glycoprotein-S1 (16-685, glycosylated, HEK, Fc-Tag)	SARS-CoV-21	HEK	2 µg
2019 V200 02	Spike Glycoprotein-S1 (16-685, glycosylated, HEK, His-Tag)	SARS-CoV-24	HEK	2 µg
2105 V200 50	Spike Glycoprotein-S1 (nCoV-S1, His-Tag)	SARS-CoV-27	Insect cells	50 µg
2218 V200 02	Spike Glycoprotein-S1 RBD (319-541, biotinylated, glycosylated, HEK)	SARS-CoV-30	HEK	2 µg
2118 V200 02	Spike Glycoprotein-S1 RBD (319-541, glycosylated, HEK, Fc-Tag)	SARS-CoV-33	HEK	2 µg
2018 V200 02	Spike Glycoprotein-S1 RBD (319-541, glycosylated, HEK, His-Tag)	SARS-CoV-36	HEK	2 µg
2005 V200 50	Spike Glycoprotein-S1/ nCoV-S1 (glycosylated, HEK, Fc-Tag)	SARS-CoV-39	HEK	50 µg
2106 V200 50	Spike Glycoprotein-S2 (nCoV-S2, His-Tag)	SARS-CoV-42	Insect cells	50 µg
2006 V200 50	Spike Glycoprotein-S2 / nCoV-S2 (glycosylated, HEK, Fc-Tag)	SARS-CoV-45	HEK	50 µg
2009 V200 50	Spike N-Mosaic (nCoV-S2 Spike N-Mosaic, His-Tag)	SARS-CoV-48	E. coli	50 µg
2020 V200 50	Spike N-terminal Domain (a.a. 1-260, glycosylated, HEK, Fc-Tag)	SARS-CoV-51	HEK	50 µg
2013 V201 00	Spike Protein S1 Receptor Binding Domain (nCoV-S2 Spike Protein S1 Receptor Binding Domain)	SARS-CoV-54	E. coli	100 µg
2010 V200 50	Spike RBD 300-600 (nCoV-S2 Spike RBD 300-600, His-Tag)	SARS-CoV-55	E. coli	50 µg
4050 9500 02	STAT1	Human	E. coli	2 µg
4067 9500 05	Syndecan-1 / CD138 (His-Tag)	Human	E. coli	5 µg
4069 9500 02	Syndecan-4	Human	E. coli	2 µg
T				
1910 9500 05	TACI	Human	E. coli	5 µg
1911 9500 05	TAFA-2	Human	E. coli	5 µg
1915 9500 05	TARC / CCL17	Human	E. coli	5 µg
1920 9500 05	TECK / CCL25	Human	E. coli	5 µg
1930 9500 20	TGF-alpha	Human	E. coli	20 µg
1938 9600 02	TGF-beta 3	Murine	E. coli	2 µg
1935 9540 02	TGF-beta1 (glycosylated, CHO)	Human	CHO	2 µg
1935 9550 02	TGF-beta1 (glycosylated, HEK)	Human	HEK	2 µg
1936 9550 02	TGF-beta2 (glycosylated, HEK)	Human	HEK	2 µg
1938 9500 02	TGF-beta3	Human	E. coli	2 µg
1938 9550 01	TGF-beta3 (glycosylated, HEK)	Human	HEK	1 µg
1975 9500 02	Thrombopoietin TPO	Human	E. coli	2 µg
1975 9550 02	Thrombopoietin TPO (glycosylated, HEK)	Human	HEK	2 µg
4070 9520 02	Thrombospondin-1	Human	Insect cells	2 µg
4017 9620 10	TIE-1 soluble	Murine	Insect cells	10 µg
1950 9640 20	TIE-1 soluble / FC Chimera (CHO)	Murine	CHO	20 µg
1950 9520 20	TIE-1 soluble / FC Chimera (InCs)	Human	Insect cells	20 µg
4018 9520 10	TIE-2 soluble	Human	Insect cells	10 µg
1951 9640 20	TIE-2 soluble / FC Chimera (CHO)	Murine	CHO	20 µg
1951 9520 20	TIE-2 soluble / FC Chimera (InCs)	Human	Insect cells	20 µg
1956 9500 02	TIMP-1	Human	E. coli	2 µg
1956 9550 02	TIMP-1 (glycosylated, HEK)	Human	HEK	2 µg
1957 9500 02	TIMP-2	Human	E. coli	2 µg
1957 9550 02	TIMP-2 (glycosylated, HEK)	Human	HEK	2 µg
1955 9500 05	TL-1A / VEG1 / TNFSF-15	Human	E. coli	5 µg
1978 9550 05	TLR-3 (glycosylated, HEK)	Human	HEK	5 µg
1960 9500 10	TNF-alpha	Human	E. coli	10 µg
1960 9550 02	TNF-alpha (glycosylated, HEK)	Human	HEK	2 µg
1962 9500 10	TNF-alpha Variant (less inflammatory)	Human	E. coli	10 µg

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OFFER NO.	PRODUCT	SPECIES	SOURCE	SIZE
1960 9530 10	TNF-alpha, cct-premium (Yeast)	Human	Yeast	10 µg
1965 9500 05	TNF-beta	Human	E. coli	5 µg
1970 9500 05	TNF-Receptor soluble Type I	Human	E. coli	5 µg
1971 9500 05	TNF-Receptor soluble Type II	Human	E. coli	5 µg
1969 9540 10	TNF-Receptor soluble Type II FC (glycosylated)	Human	CHO	10 µg
4565 9520 05	TPO (Thyroid Peroxidase) His-Tag	Human	Insect cells	5 µg
4566 9520 50	TPO (Thyroid Peroxidase) His-Tag, biotinylated	Human	Insect cells	50 µg
4044 9500 05	TRAF1 TNF Receptor Associated Factor	Human	E. coli	5 µg
1980 9500 10	TRAIL soluble / Apo-2 Ligand	Human	E. coli	10 µg
1925 9500 05	TreFoil Factor-1 / TFF-1	Human	E. coli	5 µg
1926 9500 05	TreFoil Factor-2 / TFF-2	Human	E. coli	5 µg
1927 9500 05	TreFoil Factor-3 / TFF-3	Human	E. coli	5 µg
1984 9540 10	TSG / Twisted gastrulation Protein (glycosylated)	Human	CHO	10 µg
2255 9590 02	TSH (natural)	Human	Human pituitary glands	2 µg
1985 9500 02	TSLP	Human	E. coli	2 µg
1990 9500 05	TWEAK / TNFSF12	Human	E. coli	5 µg
U				
4097 9591 00	Urokinase	Human	Human Urine	100 µg
V				
4115 9500 05	Vasostatin-2 / CHGA	Human	E. coli	5 µg
2001 9500 05	Vaspin	Human	E. coli	5 µg
4001 9600 02	VEGF120	Murine	E. coli	2 µg
2000 9500 05	VEGF121	Human	E. coli	5 µg
2000 9520 05	VEGF121 (glycosylated)	Human	Insect cells	5 µg
4002 9600 02	VEGF144	Murine	E. coli	2 µg
2003 9500 05	VEGF145	Human	E. coli	5 µg
2006 9620 05	VEGF164 (glycosylated)	Murine	Insect cells	5 µg
2005 9600 02	VEGF164/165	Murine	E. coli	2 µg
2005 9500 02	VEGF165	Human	E. coli	2 µg
2005 9540 02	VEGF165 (glycosylated)	Human	CHO	2 µg
2005 9520 05	VEGF165 (Insect cells)	Human	Insect cells	5 µg
4004 9600 05	VEGF188	Murine	E. coli	5 µg
2195 9500 05	VEGF189	Human	E. coli	5 µg
4003 9500 02	VEGF206	Human	E. coli	2 µg
2010 9520 05	VEGF-C, (glycosylated, His-Tag)	Human	Insect cells	5 µg
2015 9000 05	VEGF-E	Orv virus	E. coli	5 µg
2016 9020 05	VEGF-E Heparin binding (InCs)	Orv virus	Insect cells	5 µg
4005 9800 02	VEGF-F (B. insularis)	Snake	E. coli	2 µg
2017 9500 05	VEG-I	Human	E. coli	5 µg
4402 9500 20	Vimentin	Human	E. coli	20 µg
2185 9500 05	Visfatin	Human	E. coli	5 µg
2185 9600 05	Visfatin, liquid	Murine	E. coli	5 µg
2935 9551 00	Vitronectin (glycosylated, HEK)	Human	HEK	100 µg
W				
4012 9520 02	WIF-1 (glycosylated, InCs)	Human	Insect cells	2 µg
2020 9500 05	WISP-1	Human	E. coli	5 µg
2021 9500 05	WISP-3	Human	E. coli	5 µg



Reagents of cell culture	358
Human nerval system	359
Human dermal system	364
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Human renal/urothelial system	374
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ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
Reagents of cell culture			
SC-0010	FBS	Fetal Bovine Serum	10 ml FBS
SC-0025	FBS	Fetal Bovine Serum	25 ml FBS
SC-0103	T/E	Trypsin/EDTA Solution, 100 ml	100 ml
SC-0113	TNS	Trypsin Neutralization Solution	100 ml
SC-0123	ECDS	Enzyme-free Cell Disociation Solution	100 ml
SC-0133	CFM	Cell Freezing Medium	50 ml
SC-0143	CFM-sf	Cell Freezing Medium-serum free	50 ml
SC-0153	StemCryo™	Human Pluripotent Stem Cell Cryopreservation Medium	50 ml
SC-0163	StemCryo™	Human Pluripotent Stem Cell Cryopreservation Medium	5 × 10 ml
SC-0173	STI	Soybean Trypsin Inhibitor	50 ml
SC-0183	T/E	Trypsin/EDTA Solution, 0.05%	100 ml
SC-0203	TB	0.4% Trypan Blue	50 ml
SC-0303	DBPS	Dulbecco's Phosphate-Buffered Saline	500 ml
SC-0313	HBSS	Hank's Balanced Salt Solution	500 ml
SC-0373	ULBC Plates	Ultra-Low Binding Culture Plate	6-well, 1 plate
SC-0383	ULBC Plates	Ultra-Low Binding Culture Plate	24-well, 1 plate
SC-0403	PLL	Poly-L-Lysine	1 mg/ml
SC-0413	PLL	Poly-L-Lysine	10 mg/ml
SC-0423	GSN	0.2% Gelatin Solution	100 ml
SC-0500	FBS	Fetal Bovine Serum	500 ml FBS
SC-0503	P/S	Penicillin/Streptomycin Solution	5 ml
SC-0513	P/S	Penicillin/Steptomycin Solution	100 ml
SC-0523	AMS	Antimycotic Solution	50 ml
SC-0533	ABAMS	Antibiotic/Antimycotic Solution	50 ml
SC-0543	PURO-10	Puromycin	10 mg/ml; 10 × 1 ml
SC-0553	PURO-1	Puromycin	10 mg/ml; 1 ml
SC-0563	MIS	Mycoplasma Inhibitor Solution	10 mg/ml; 10 × 1 ml
SC-0600	CCGW	Cell Culture Grade Water	500 ml
SC-0603	BHE-1	Bovine Hypothalamus Extract	10 mg/ml; 1 ml
SC-0613	BHE-5	Bovine Hypothalamus Extract	10 mg/ml; 5 × 1 ml
SC-0703	BPE	Bovine Pituitary Extract	25 mg
SC-0713	BPE	Bovine Pituitary Extract	100 mg
SC-0733	LALG	L-alanyl-l-glutamine	100 ml
SC-0753	BPE	Bovine Pituitary Extract - New Zealand	25 mg
SC-0763	BPE	Bovine Pituitary Extract - New Zealand	100 mg
SC-0803	ITS	Insulin Transferrin Selenium	10 ml
SC-0813	L-Glu	L-Glutamine Solution	100 ml
SC-0823	NEAA	100X Non-Essential Amino Acids	100 ml
SC-0863	HEP	0.2% Heparin	5 ml
SC-0903	EndoF	EndoFectagen	kit
SC-0913	FibroF	FibroFectagen	kit
SC-0923	EpiF	EpiFectagen	kit
SC-0933	MesenF	MesenFectagen	kit
SC-0943	AstroF	AstroFectagen	kit
SC-0953	SMCF	SMCFectagen	kit
SC-0963	KeraF	KeraFectagen	kit
SC-0973	EpiF	EpiFectagen II	kit

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-0983	MelaF	MelanoFectagen	kit
SC-5803	StemDS	StemDS® Human Embryonic Stem Cell Dissociation Solution, 100 ml	100 ml
SC-8248	BPF	Bovine Plasma Fibronectin	1 mg
SC-8448	IR	Iron Assay	100 tests
SC-8448	IR	Iron Assay	100 tests
SC-8538	BPV	Bovine Plasma Vitronectin	100 µg
SC-09011	MEM	MEM with Earle's Salts and L-Glutamine	500 ml
SC-09021	MEM	MEM with Hank's Salts and L-Glutamine	500 ml
SC-09031	MEM	MEM with Eagles's Salts and Glutamine	500 ml
SC-09111	M199E	Medium 199 with Earle's Salts and L-Glutamine	500 ml
SC-09121	M199H	Medium 199 with Hanks Salts and L-Glutamine	500 ml
SC-09211	DMEM	DMEM with L-Glutamine and Sodium Pyruvate	500 ml
SC-09221	DMEM	DMEM with High-Glucose, L-Glutamine and Sodium Pyruvate	500 ml
SC-09231	DMEM	DMEM with L-Glutamine, Sodium Pyruvate and 25 mM HEPES	500 ml
SC-09241	DMEM	DMEM with High-Glucose, L-Glutamine, Sodium Pyruvate and 25 mM HEPES	500 ml
SC-09311	Ham's F-10	F-10 with L-Glutamine and 25 mM HEPES	500 ml
SC-09321	Ham's F-12	F-12 with L-Glutamine and 25 mM HEPES	500 ml
SC-09411	DMEM/F-12	DMEM/F-12 with L-Glutamine	500 ml
SC-09421	DMEM/F-12	DMEM/F-12 with L-Glutamine and 15 mM HEPES	500 ml
SC-09511	RPMI 1640	RPMI 1640 without L-Glutamine, with 25 mM HEPES	500 ml
SC-09521	RPMI 1640	RPMI 1640 with L-Glutamine and 25 mM HEPES	500 ml
SC-09611	IMDM	IMDM with L-Glutamine and 25 mM HEPES; without alpha-Thioglycerol, 2-mercaptoethanol	500 ml
SC-OsrHSA	rHSA	Recombinant Human Serum Albumin	1 g
SC-OsrHSA-10	rHSA	Recombinant Human Serum Albumin	10 g
SC-OsrHSA-100	rHSA	Recombinant Human Serum Albumin	100 g
SC-OsrHSA-1000	rHSA	Recombinant Human Serum Albumin	1 kg
Human neural system			
SC-CP1000	HBMEC Cell Pellet	Human Brain Microvascular Endothelial Cells	5 million cells
SC-1001	ECM	Endothelial Cell Medium	500 ml
SC-1001-b	ECM-b	Endothelial Cell Medium-basal	500 ml
SC-1001-b-prf	ECM-b-prf	Endothelial Cell Medium-basal-phenol red free	500 ml
SC-1001-NG	ECM-NG	Endothelial Cell Medium – No Glutamine	500 ml
SC-1001-prf	ECM-prf	Endothelial Cell Medium-phenol red free	500 ml
SC-1004	HBMEC cDNA	Human Brain Microvascular Endothelial Cell cDNA	20 reactions
SC-1005	HBMEC tRNA	Human Brain Microvascular Endothelial Cell Total RNA	10 µg
SC-1006	HBMEC Lysate	Human Brain Microvacular Endothelial Cell Lysate	200 µg
SC-1007	HBMEC miRNA	Human Brain Microvacular Endothelial Cell MicroRNA	1 µg
SC-1009	HBMEC gDNA	Human Brain Microvacular Endothelial Cell Genomic DNA	5 µg
SC-1021	ECM-r	Endothelial Cell Medium-rat	500mL
SC-1052	ECGS	Endothelial Cell Growth Supplement	5 ml
SC-1062	ECGS-r	Endothelial Cell Growth Supplement-rat	5mL
SC-1100	HBVSMC	Human Brain Vascular Smooth Muscle Cells	5 × 10 ⁵ cells/vial
SC-CP1100	HBVSMC Cell Pellet	Human Brain Vascular Smooth Muscle Cells	5 million cells
SC-1101	SMCM	Smooth Muscle Cell Medium	500 ml
SC-1101-b	SMCM-b	Smooth Muscle Cell Medium-basal	500 ml
SC-1101-b-prf	SMCM-b-prf	Smooth Muscle Cell Medium-basal-phenol red free	500 ml
SC-1101-prf	SMCM-prf	Smooth Muscle Cell Medium-phenol red free	500 ml
SC-1104	HBVSMC cDNA	Human Brain Vascular Smooth Muscle Cell cDNA	20 reactions

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-1105	HBVSMC tRNA	Human Brain Vascular Smooth Muscle Cell Total RNA	10 µg
SC-1106	HBVSMC Lysate	Human Brain Vascular Smooth Muscle Cell Lysate	200 µg
SC-1107	HBVSMC miRNA	Human Brain Vascular Smooth Muscle Cell MicroRNA	1 µg
SC-1109	HBVSMC gDNA	Human Brain Vascular Smooth Muscle Cell Genomic DNA	5 µg
SC-1110	HBVAF	Human Brain Vascular Adventitial Fibroblasts	5 × 10 ⁵ cells/vial
SC-CP1110	HBVAF Cell Pellet	Human Brain Vascular Adventitial Fibroblast Cell Pellet	5 million cells
SC-1111	SMCM-sf	Smooth Muscle Cell Medium-serum free	500 ml
SC-1111-b	SMCM-sf-b	Smooth Muscle Cell Medium-serum free-basal	500 ml
SC-1111-b-prf	SMCM-sf-b-prf	Smooth Muscle Cell Medium-serum free-basal-phenol red free	500 ml
SC-1111-prf	SMCM-sf-prf	Smooth Muscle Cell Medium-serum free-phenol red free	500 ml
SC-1114	HBVAF cDNA	Human Brain Vascular Adventitial Fibroblast cDNA	20 reactions
SC-1115	HBVAF tRNA	Human Brain Vascular Adventitial Fibroblast Total RNA	10 µg
SC-1116	HBVAF Lysate	Human Brain Vascular Adventitial Fibroblast Lysate	200 µg
SC-1117	HBVAF miRNA	Human Brain Vascular Adventitial Fibroblast MicroRNA	1 µg
SC-1119	HBVAF gDNA	Human Brain Vascular Adventitial Fibroblast Genomic DNA	5 µg
SC-1152	SMCGS	Smooth Muscle Cell Growth Supplement	5 ml
SC-1162	SMCGS-sf	Smooth Muscle Cell Growth Supplement-serum free	5 ml
SC-1200	HBVP	Human Brain Vascular Pericytes	5 × 10 ⁵ cells/vial
SC-CP1200	HBVP Cell Pellet	Human Brain Vascular Pericytes Cell Pellet	5 million cells
SC-1201	PM	Pericyte Medium	500 ml
SC-1201-b	PM-b	Pericyte Medium-basal	500 ml
SC-1201-b-prf	PM-b-prf	Pericyte Medium-basal-phenol red free	500 ml
SC-1201-prf	PM-prf	Pericyte Medium-phenol red free	500 ml
SC-1204	HBVP cDNA	Human Brain Vascular Pericyte cDNA	20 reactions
SC-1205	HBVP tRNA	Human Brain Vascular Pericyte Total RNA	10 µg
SC-1206	HBVP Lysate	Human Brain Vascular Pericyte Lysate	200 µg
SC-1207	HBVP miRNA	Human Brain Vascular Pericyte MicroRNA	1 µg
SC-1209	HBVP gDNA	Human Brain Vascular Pericyte Genomic DNA	5 µg
SC-1231	PM-m	Pericyte Medium-mouse	500 ml
SC-1231-b	PM-m-b	Pericyte Medium-mouse-basal	500 ml
SC-1231-b-prf	PM-m-b-prf	Pericyte Medium-mouse basal-phenol red free	500 ml
SC-1231-prf	PM-m-prf	Pericyte Medium-mouse-phenol red free	500 ml
SC-1252	PGS	Pericyte Growth Supplement	5 ml
SC-1300	HCPEC	Human Choroid Plexus Endothelial Cells	5 × 10 ⁵ cells/vial
SC-CP1300	HCPEC Cell Pellet	Human Choroid Plexus Endothelial Cell Pellet	5 million cells
SC-1304	HCPEC cDNA	Human Choroid Plexus Endothelial Cell cDNA	20 reactions
SC-1305	HCPEC tRNA	Human Choroid Plexus Endothelial Cell Total RNA	10 µg
SC-1306	HCPEC Lysate	Human Choroid Plexus Endothelial Cell Lysate	200 µg
SC-1307	HCPEC miRNA	Human Choroid Plexus Endothelial Cell MicroRNA	1 µg
SC-1309	HCPEC gDNA	Human Choroid Plexus Endothelial Cell Genomic DNA	5 µg
SC-1310	HCPEpiC	Human Choroid Plexus Epithelial Cells	5 × 10 ⁵ cells/vial
SC-CP1310	HCPEpiC Cell Pellet	Human Choroid Plexus Epithelial Cell Pellet	5 million cells
SC-1314	HCPEpiC cDNA	Human Choroid Plexus Epithelial Cell cDNA	20 reactions
SC-1315	HCPEpiC tRNA	Human Choroid Plexus Epithelial Cell Total RNA	10 µg
SC-1316	HCPEpiC Lysate	Human Choroid Plexus Epithelial Cell Lysate	200 µg
SC-1317	HCPEpiC miRNA	Human Choroid Plexus Epithelial Cell MicroRNA	1 µg
SC-1319	q	Human Choroid Plexus Epithelial Cell Genomic DNA	5 µg
SC-1320	HCPEpiC	Human Choroid Plexus Epithelial Cells	5 × 10 ⁵ cells/vial

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-1325	HCPF tRNA	Human Choroid Plexus Fibroblast Total RNA	10 µg
SC-1326	HCPF Lysate	Human Choroid Plexus Fibroblast Lysate	200 µg
SC-1327	HCPF miRNA	Human Choroid Plexus Fibroblast MicroRNA	1 µg
SC-1329	HCPF gDNA	Human Choroid Plexus Fibroblast Genomic DNA	5 µg
SC-1400	HMC	Human Meningeal Cells	5 × 10 ⁵ cells/vial
SC-CP1400	HMC Cell Pellet	Human Meningeal Cell Pellet	5 million cells
SC-1401	MenCM	Meningeal Cell Medium	500 ml
SC-1401-b	MenCM-b	Meningeal Cell Medium-basal	500 ml
SC-1401-b-prf	MenCM-b-prf	Meningeal Cell Medium-basal-phenol red free	500 ml
SC-1401-prf	MenCM-prf	Meningeal Cell Medium-phenol red free	500 ml
SC-1404	HMC cDNA	Human Meningeal Cell cDNA	20 reactions
SC-1405	HMC tRNA	Human Meningeal Cell Total RNA	10 µg
SC-1406	HMC Lysate	Human Meningeal Cell Lysate	200 µg
SC-1407	HMC miRNA	Human Meningeal Cell MicroRNA	1 µg
SC-1409	HMC gDNA	Human Meningeal Cell Genomic DNA	5 µg
SC-1410	HLP	Human Leptomeningeal Pericytes	5 × 10 ⁵ cells/vial
SC-CP1410	HLP Cell Pellet	Human Leptomeningeal Pericyte Cell Pellet	5 million cells
SC-1414	HLP cDNA	Human Leptomeningeal Pericyte cDNA	20 reactions
SC-1415	HLP tRNA	Human Leptomeningeal Pericyte Total RNA	5 µg
SC-1416	HLP Lysate	Human Leptomeningeal Pericyte Lysate	200 µg
SC-1417	HLP miRNA	Human Leptomeningeal Pericyte MicroRNA	1 µg
SC-1419	HLP gDNA	Human Leptomeningeal Pericyte Genomic DNA	10 µg
SC-1452	MCGS	Meningeal Cell Growth Supplement	5 ml
SC-1511	NPCM	Neural Precursor Cell Medium	500 ml
SC-1511-b	NPCM-b	Neural Precursor Cell Medium-basal	500 ml
SC-1511-b-prf	NPCM-b-prf	Neural Precursor Cell Medium-basal-phenol red free	500 ml
SC-1511-prf	NPCM-prf	Neural Precursor Cell Medium-phenol red free	500 ml
SC-1520	HN	Human Neurons	1 × 10 ⁶ cells/vial
SC-1521	NM	Neuronal Medium	500 ml
SC-1521-b	NM-b	Neuronal Medium-basal	500 ml
SC-1521-b-prf	NM-b-prf	Neuronal Medium-basal-phenol red free	500 ml
SC-1521-prf	NM-prf	Neuronal Medium-phenol red free	500 ml
SC-1524	HN cDNA	Human Neuron cDNA	20 reactions
SC-1526	HN Lysate	Human Neuron Lysate	200 µg
SC-1529	HN gDNA	Human Neuron Genomic DNA	5 µg
SC-1530	HCGC	Human Cerebellar Granule Cells	1 × 10 ⁶ cells/vial
SC-1531	NPCDM	Neural Precursor Cell Differentiation Medium	500 ml
SC-1531-b	NPCDM-b	Neural Precursor Cell Differentiation Medium-basal	500 ml
SC-1531-b-prf	NPCDM-b-prf	Neural Precursor Cell Differentiation Medium-basal-phenol red free	500 ml
SC-1531-prf	NPCDM-prf	Neural Precursor Cell Differentiation Medium-phenol red free	500 ml
SC-1539	HCGC gDNA	Human Cerebellar Granule Cell Genomic DNA	5 µg
SC-1540	HN-h	Human Neurons-hippocampal	1 × 10 ⁶ cells/vial
SC-1550	HN-mb	Human Neurons-midbrain	1 × 10 ⁶ cells/vial
SC-1552	NPCGS	Neural Precursor Cell Growth Supplement	5 ml
SC-1560	HN-bs	Human Neurons-brain stem	1 × 10 ⁶ cells/vial
SC-1562	NGS	Neuronal Growth Supplement	5 ml
SC-1572	NPCDS	Neural Precursor Cell Differentiation Supplement	5 ml
SC-1600	HOPC	Human Oligodendrocyte Precursor Cells	1 × 10 ⁶ cells/vial

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-1601	OPCM	Oligodendrocyte Precursor Cell Medium	500 ml
SC-1601-b	OPCM-b	Oligodendrocyte Precursor Cell Medium-basal	500 ml
SC-1601-b-prf	OPCM-b-prf	Oligodendrocyte Precursor Cell Medium-basal-phenol red free	500 ml
SC-1601-prf	OPCM-prf	Oligodendrocyte Precursor Cell Medium-phenol red free	500 ml
SC-1604	HOPC cDNA	Human Oligodendrocyte Precursor Cell cDNA	20 reactions
SC-1606	HOPC Lysate	Human Oligodendrocyte Precursor Cell Lysate	200 µg
SC-1609	HOPC gDNA	Human Oligodendrocyte Precursor Cell Genomic DNA	5 µg
SC-1610	HOPC-os	Human Oligodendrocyte Precursor Cell-oligospheres	5 × 10 ⁶ cells/vial
SC-1611	OsM	Oligosphere Medium	500 ml
SC-1611-b	OsM-b	Oligosphere Medium-basal	500 ml
SC-1611-b-prf	OsM-b-prf	Oligosphere Medium-basal-phenol red free	500 ml
SC-1611-prf	OsM-prf	Oligosphere Medium-phenol red free	500 ml
SC-1621	OM	Oligodendrocyte Medium	500 ml
SC-1621-b-prf	OM-b-prf	Oligodendrocyte Medium-basal-phenol red free	500 ml
SC-1621-prf	OM-prf	Oligodendrocyte Medium-phenol red free	500 ml
SC-1631	OPCDM	Oligodendrocyte Precursor Cell Differentiation Medium	500 ml
SC-1631-b	OPCDM-b	Oligodendrocyte Precursor Cell Differentiation Medium-basal	500 ml
SC-1631-b-prf	OPCDM-b-prf	Oligodendrocyte Precursor Cell Differentiation Medium-basal-phenol red free	500 ml
SC-1631-prf	OPCDM-prf	Oligodendrocyte Precursor Cell Differentiation Medium-phenol red free	500 ml
SC-1650	HiPSC-NSC	HiPSC-derived Neural Stem Cells	1 × 10 ⁶ cells/vial
SC-1652	OPCGS	Oligodendrocyte Precursor Cell Growth Supplement	5 ml
SC-1662	OGS	Oligodendrocyte Growth Supplement	5 ml
SC-1672	OPCDS	Oligodendrocyte Precursor Cell Differentiation Supplement	5 ml
SC-1700	HSC	Human Schwann Cells	5 × 10 ⁵ cells/vial
SC-CP1700	HSC Cell Pellet	Human Schwann Cell Pellet	5 million cells
SC-1701	SCM	Schwann Cell Medium	500 ml
SC-1701-b	SCM-b	Schwann Cell Medium-basal	500 ml
SC-1701-b-prf	SCM-b-prf	Schwann Cell Medium-basal-phenol red free	500 ml
SC-1701-prf	SCM-prf	Schwann Cell Medium-phenol red free	500 ml
SC-1704	HSC cDNA	Human Schwann Cell cDNA	20 reactions
SC-1705	HSC tRNA	Human Schwann Cell Total RNA	10 µg
SC-1706	HSC Lysate	Human Schwann Cell Lysate	200 µg
SC-1707	HSC miRNA	Human Schwann Cell MicroRNA	1 µg
SC-1709	HSC gDNA	Human Schwann Cell Genomic DNA	5 µg
SC-1710	HPNC	Human Perineurial Cells	5 × 10 ⁵ cells/vial
SC-CP1710	HPNC Cell Pellet	Human Perineurial Cell Pellet	5 million cells
SC-1714	HPC cDNA	Human Perineurial Cell cDNA	20 reactions
SC-1715	HPC tRNA	Human Perineurial Cell Total RNA	10 µg
SC-1716	HPC Lysate	Human Perineurial Cell Lysate	200 µg
SC-1717	HPC miRNA	Human Perineurial Cell MicroRNA	1 µg
SC-1719	HPC gDNA	Human Perineurial Cell Genomic DNA	5 µg
SC-1752	SCGS	Schwann Cell Growth Supplement	5 ml
SC-1800	HA	Human Astrocytes	1 × 10 ⁶ cells/vial
SC-CP1800	HA Cell Pellet	Human Astrocyte Cell Pellet	5 million cells
SC-1801	AM	Astrocyte Medium	500 ml
SC-1801-b	AM-b	Astrocyte Medium-basal	500 ml
SC-1801-b-prf	AM-b-prf	Astrocyte Medium-basal-phenol red free	500 ml
SC-1801-prf	AM-prf	Astrocyte Medium-phenol red free	500 ml

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-1804	HA cDNA	Human Astrocyte cDNA	20 reactions
SC-1805	HA tRNA	Human Astrocyte Total RNA	10 µg
SC-1806	HA Lysate	Human Astrocyte Lysate	200 µg
SC-1807	HA miRNA	Human Astrocyte MicroRNA	1 µg
SC-1809	HA gDNA	Human Astrocyte Genomic DNA	5 µg
SC-1810	HA-c	Human Astrocytes-cerebellar	5 × 10 ⁵ cells/vial
SC-CP1810	HA-c Cell Pellet	Human Astrocyte-cerebellar Cell Pellet	5 million cells
SC-1811	ACM	Astrocyte Conditioned Medium	100 ml
SC-1811-sf	ACM-sf	Astrocyte Conditioned Medium-Serum Free	100 ml
SC-1814	HA-c cDNA	Human Astrocyte-cerebellar cDNA	20 reactions
SC-1815	HA-c tRNA	Human Astrocyte-cerebellar Total RNA	10 µg
SC-1816	HA-c Lysate	Human Astrocyte-cerebellar Lysate	200 µg
SC-1817	HA-c miRNA	Human Astrocyte-cerebellar MicroRNA	1 µg
SC-1819	HA-c gDNA	Human Astrocyte-cerebellar Genomic DNA	5 µg
SC-1820	HA-sp	Human Astrocytes-spinal cord	5 × 10 ⁵ cells/vial
SC-CP1820	HA-sp Cell Pellet	Human Astrocyte-spinal cord Cell Pellet	5 million cells
SC-1824	HA-sp cDNA	Human Astrocyte-spinal cord cDNA	20 reactions
SC-1825	HA-sp tRNA	Human Astrocyte-spinal cord Total RNA	10 µg
SC-1826	HA-sp Lysate	Human Astrocyte-spinal cord Lysate	200 µg
SC-1827	HA-sp miRNA	Human Astrocyte-spinal cord MicroRNA	1 µg
SC-1829	HA-sp gDNA	Human Astrocyte-spinal cord Genomic DNA	5 µg
SC-1830	HA-h	Human Astrocytes-hippocampal	5 × 10 ⁵ cells/vial
SC-CP1830	HA-h Cell Pellet	Human Astrocyte-hippocampal Cell Pellet	5 million cells
SC-1831	AM-a	Astrocyte Medium-animal	500 ml
SC-1831-b	AM-a-b	Astrocyte Medium-animal-basal	500 ml
SC-1831-b-prf	AM-a-b-prf	Astrocyte Medium-animal-basal-phenol red free	500 ml
SC-1831-prf	AM-a-prf	Astrocyte Medium-animal-phenol red free	500 ml
SC-1834	HA-h cDNA	Human Astrocytes-hippocampal cDNA	20 reactions
SC-1835	HA-h tRNA	Human Astrocytes-hippocampal Total RNA	10 µg
SC-1836	HAL-h Lysate	Human Astrocyte-hippocampal Lysate	200 µg
SC-1837	HA-h miRNA	Human Astrocytes-hippocampal MicroRNA	1 µg
SC-1839	HA-h gDNA	Human Astrocytes-hippocampal Genomic DNA	5 µg
SC-1840	HA-bs	Human Astrocytes-brain stem	5 × 10 ⁵ cells/vial
SC-CP1840	HA-bs Cell Pellet	Human Astrocyte-brain stem Cell Pellet	5 million cells
SC-1844	HA-bs cDNA	Human Astrocytes-brain stem cDNA	20 reactions
SC-1845	HA-bs tRNA	Human Astrocytes-brain stem Total RNA	10 µg
SC-1846	HAL-bs Lysate	Human Astrocyte Lysate-brain	200 µg
SC-1847	HA-bs miRNA	Human Astrocytes-brain stem MicroRNA	1 µg
SC-1849	HA-bs gDNA	Human Astrocytes-brain stem Genomic DNA	5 µg
SC-1850	HA-mb	Human Astrocytes-midbrain	5 × 10 ⁵ cells/vial
SC-CP1850	HA-mb Cell Pellet	Human Astrocyte-midbrain Cell Pellet	5 million cells
SC-1852	AGS	Astrocyte Growth Supplement	5 ml
SC-1854	HA-mb cDNA	Human Astrocyte-midbrain cDNA	20 reactions
SC-1855	HA-mb HA tRNA	Human Astrocyte-midbrain Total RNA	10 µg
SC-1856	HA-mb Lysate	Human Astrocyte-midbrain Lysate	200 µg
SC-1857	HA-mb miRNA	Human Astrocyte-midbrain MicroRNA	1 µg
SC-1859	HA-mb gDNA	Human Astrocyte-midbrain Genomic DNA	5 µg
SC-1870	HRA	Human Retinal Astrocytes	5 × 10 ⁵ cells/vial

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-CP1870	HRA Cell Pellet	Human Retinal Astrocyte Cell Pellet	5 million cells
SC-1874	HRA cDNA	Human Retinal Astrocyte cDNA	20 reactions
SC-1875	HRA tRNA	Human Retinal Astrocyte Total RNA	10 µg
SC-1876	HRA Lysate	Human Retinal Astrocyte Lysate	200 µg
SC-1877	HRA miRNA	Human Retinal Astrocyte MicroRNA	1 µg
SC-1879	HRA gDNA	Human Retinal Astrocytes Genomic DNA	5 µg
SC-1882	AGS-a	Astrocyte Growth Supplement-animal	5 ml
SC-1901	MM	Microglia Medium	500 ml
SC-1901-b	MM-b	Microglia Medium-basal	500 ml
SC-1901-b-prf	MM-b-prf	Microglia Medium-basal-phenol red free	500 ml
SC-1901-prf	MM-prf	Microglia Medium-phenol red free	500 ml
SC-1921	MaM	Macrophage Medium	500 ml
SC-1921-b	MaM-b	Macrophage Medium-basal	500 ml
SC-1921-b-prf	MaM-b-prf	Macrophage Medium-basal-phenol red free	500 ml
SC-1921-prf	MaM-prf	Macrophage Medium-phenol red free	500 ml
SC-1952	MGS	Microglia Growth Supplement	5 ml
SC-1972	MaGS	Macrophage Growth Supplement	5 ml
Human dermal system			
SC-2000	HDMEC	Human Dermal Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-2004	HDMEC cDNA	Human Dermal Microvascular Endothelial Cell cDNA	20 reactions
SC-2005	HDMEC tRNA	Human Dermal Microvascular Endothelial Cell Total RNA	10 µg
SC-2006	HDMEC Lysate	Human Dermal Microvascular Endothelial Cell Lysate	200 µg
SC-2007	HDMEC miRNA	Human Dermal Microvascular Endothelial Cell MicroRNA	1 µg
SC-2009	HDMEC gDNA	Human Dermal Microvascular Endothelial Cell Genomic DNA	5 µg
SC-2010	HDLEC	Human Dermal Lymphatic Endothelial Cells	5 × 10 ⁵ cells/vial
SC-2014	HDLEC cDNA	Human Dermal Lymphatic Endothelial Cell cDNA	20 reactions
SC-2015	HDLEC tRNA	Human Dermal Lymphatic Endothelial Cell Total RNA	10 µg
SC-2016	HDLEC Lysate	Human Dermal Lymphatic Endothelial Cell Lysate	200 µg
SC-2017	HDLEC miRNA	Human Dermal Lymphatic Endothelial Cell MicroRNA	1 µg
SC-2019	HDLEC gDNA	Human Dermal Lymphatic Endothelial Cell Genomic DNA	5 µg
SC-2020	HDMEC-a	Human Dermal Microvascular Endothelial Cells-adult	5 × 10 ⁵ cells/vial
SC-2024	HDMEC-a cDNA	Human Dermal Microvascular Endothelial Cell-adult cDNA	20 reactions
SC-2025	HDMEC-a tRNA	Human Dermal Microvascular Endothelial Cell-adult Total RNA	10 µg
SC-2026	HDMEC-a Lysate	Human Dermal Microvascular Endothelial Cell-adult Lysate	200 µg
SC-2027	HDMEC-a miRNA	Human Dermal Microvascular Endothelial Cell-adult MicroRNA	1 µg
SC-2029	HDMEC-a gDNA	Human Dermal Microvascular Endothelial Cell-adult Genomic DNA	5 µg
SC-2100	HEK	Human Epidermal Keratinocytes-neonatal	5 × 10 ⁵ cells/vial
SC-2101	KM	Keratinocyte Medium	500 ml
SC-2101-b	KM-b	Keratinocyte Medium-basal	500 ml
SC-2101-b-prf	KM-b-prf	Keratinocyte Medium-basal-phenol red free	500 ml
SC-2101-prf	KM-prf	Keratinocyte Medium-phenol red free	500 ml
SC-2104	HEK cDNA	Human Epidermal Keratinocyte cDNA	20 reactions
SC-2105	HEK tRNA	Human Epidermal Keratinocyte Total RNA	10 µg
SC-2106	HEK Lysate	Human Epidermal Keratinocyte Lysate	200 µg
SC-2107	HEK miRNA	Human Epidermal Keratinocyte MicroRNA	1 µg
SC-2109	HEK gDNA	Human Epidermal Keratinocyte Genomic DNA	5 µg
SC-2110	HEK-a	Human Epidermal Keratinocytes-adult	5 × 10 ⁵ cells/vial
SC-2111	KM-d	Keratinocyte Medium-defined	500 ml

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-2111-b	KM-d-b	Keratinocyte Medium-defined-basal	500 ml
SC-2111-b-prf	KM-d-b-prf	Keratinocyte Medium-defined-basal-phenol red free	500 ml
SC-2111-prf	KM-d-prf	Keratinocyte Medium-defined-phenol red free	500 ml
SC-2114	HEK-a cDNA	Human Epidermal Keratinocyte-adult cDNA	20 reactions
SC-2115	HEK-a tRNA	Human Epidermal Keratinocyte-adult Total RNA	10 µg
SC-2116	HEK-a Lysate	Human Epidermal Keratinocyte-adult Lysate	200 µg
SC-2117	HEK-a miRNA	Human Epidermal Keratinocyte-adult MicroRNA	1 µg
SC-2119	HEK-a gDNA	Human Epidermal Keratinocyte-adult Genomic DNA	5 µg
SC-2120	HEK-f	Human Epidermal Keratinocytes-fetal	5 × 10 ⁵ cells/vial
SC-2121	KM-acf	Keratinocyte Medium-animal component free	500 ml
SC-2121-b	KM-acf-b	Keratinocyte Medium-animal component free-basal	500 ml
SC-2121-b-prf	KM-acf-b-prf	Keratinocyte Medium-animal component free-basal-phenol red free	500 ml
SC-2121-prf	KM-acf-prf	Keratinocyte Medium-animal component free-phenol red free	500 ml
SC-2124	HEK-f cDNA	Human Epidermal Keratinocyte-fetal cDNA	20 reactions
SC-2125	HEK-f tRNA	Human Epidermal Keratinocyte-fetal Total RNA	10 µg
SC-2126	HEK-f Lysate	Human Epidermal Keratinocyte-fetal Lysate	200 µg
SC-2127	HEK-f miRNA	Human Epidermal Keratinocyte-fetal MicroRNA	1 µg
SC-2129	HEK-f gDNA	Human Epidermal Keratinocyte-fetal Genomic DNA	5 µg
SC-2152	KGS	Keratinocyte Growth Supplement	5 ml
SC-2162	KGS-d	Keratinocyte Growth Supplement-defined	5 ml
SC-2172	KGS-acf	Keratinocyte Growth Supplement-animal component free	5 ml
SC-2200	HEM-l	Human Epidermal Melanocytes-light	5 × 10 ⁵ cells/vial
SC-2201	MeIM	Melanocyte Medium	500 ml
SC-2201-b	MeIM-b	Melanocyte Medium-basal	500 ml
SC-2201-b-prf	MeIM-b-prf	Melanocyte Medium-basal-phenol red free	500 ml
SC-2201-prf	MeIM-prf	Melanocyte Medium-phenol red free	500 ml
SC-2204	HEM cDNA	Human Epidermal Melanocyte cDNA	20 reactions
SC-2205	HEM tRNA	Human Epidermal Melanocyte Total RNA	10 µg
SC-2206	HEM Lysate	Human Epidermal Melanocyte Lysate	200 µg
SC-2207	HEM miRNA	Human Epidermal Melanocyte MicroRNA	1 µg
SC-2209	HEM gDNA	Human Epidermal Melanocyte Genomic DNA	5 µg
SC-2210	HEM-m	Human Epidermal Melanocytes-medium	5 × 10 ⁵ cells/vial
SC-2211	MeIM-2	Melanocyte Medium-TPA free	500 ml
SC-2211-b	MeIM-2-b	Melanocyte Medium-2-basal	500 ml
SC-2211-b-prf	MeIM-2-b-prf	Melanocyte Medium-2-basal-phenol red free	500 ml
SC-2211-prf	MeIM-2-prf	Melanocyte Medium-2-phenol red free	500 ml
SC-2214	HEM-m cDNA	Human Epidermal Melanocyte-medium cDNA	20 reactions
SC-2215	HEM-m tRNA	Human Epidermal Melanocyte-medium Total RNA	10 µg
SC-2216	HEM-m Lysate	Human Epidermal Melanocyte-medium Lysate	200 µg
SC-2217	HEM-m miRNA	Human Epidermal Melanocyte-medium MicroRNA	1 µg
SC-2219	HEM-m gDNA	Human Epidermal Melanocyte-medium Genomic DNA	5 µg
SC-2220	HEM-d	Human Epidermal Melanocytes-dark	5 × 10 ⁵ cells/vial
SC-2224	HEM cDNA	Human Epidermal Melanocyte-dark cDNA	20 reactions
SC-2225	HEM tRNA	Human Epidermal Melanocyte-dark Total RNA	10 µg
SC-2226	HEM Lysate	Human Epidermal Melanocyte-dark Lysate	200 µg
SC-2227	HEM miRNA	Human Epidermal Melanocyte-dark MicroRNA	1 µg
SC-2229	HEM gDNA	Human Epidermal Melanocyte-dark Genomic DNA	5 µg
SC-2230	HEM-a	Human Epidermal Melanocytes-adult	5 × 10 ⁵ cells/vial

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-2234	HEM-a cDNA	Human Epidermal Melanocyte-adult cDNA	20 reactions
SC-2235	HEM-a tRNA	Human Epidermal Melanocyte-adult Total RNA	10 µg
SC-2236	HEM-a Lysate	Human Epidermal Melanocyte-adult Lysate	200 µg
SC-2237	HEM-a miRNA	Human Epidermal Melanocyte-adult MicroRNA	1 µg
SC-2239	HEM-a gDNA	Human Epidermal Melanocyte-adult Genomic DNA	5 µg
SC-2252	MeGS	Melanocyte Growth Supplement	5 ml
SC-2262	MeGS-2	Melanocyte Growth Supplement-TPA-free	5 ml
SC-2300	HDF-f	Human Dermal Fibroblasts-fetal	5 × 10 ⁵ cells/vial
SC-2301	FM	Fibroblast Medium	500 ml
SC-2301-b	FM-b	Fibroblast Medium-basal	500 ml
SC-2301-b-prf	FM-b-prf	Fibroblast Medium-basal-phenol red free	500 ml
SC-2301-prf	FM-prf	Fibroblast Medium-phenol red free	500 ml
SC-2304	HDF-f cDNA	Human Dermal Fibroblast-fetal cDNA	20 reactions
SC-2305	HDF-f tRNA	Human Dermal Fibroblast-fetal Total RNA	10 µg
SC-2306	HDF-f Lysate	Human Dermal Fibroblast-fetal Lysate	200 µg
SC-2307	HDF-f miRNA	Human Dermal Fibroblast-fetal MicroRNA	1 µg
SC-2309	HDF-f gDNA	Human Dermal Fibroblast-fetal Genomic DNA	5 µg
SC-2310	HDF-n	Human Dermal Fibroblasts-neonatal	5 × 10 ⁵ cells/vial
SC-2311	FM-sf	Fibroblast Medium-serum free	500 ml
SC-2311-b	FM-sf-b	Fibroblast Medium-serum free-basal	500 ml
SC-2311-b-prf	FM-sf-b-prf	Fibroblast Medium-serum free-basal-phenol red free	500 ml
SC-2311-prf	FM-sf-prf	Fibroblast Medium-serum free-phenol red free	500 ml
SC-2314	HDF-n cDNA	Human Dermal Fibroblast-neonate cDNA	20 reactions
SC-2315	HDF-n tRNA	Human Dermal Fibroblast-neonate Total RNA	10 µg
SC-2316	HDF-n Lysate	Human Dermal Fibroblast-neonate Lysate	200 µg
SC-2317	HDF-n miRNA	Human Dermal Fibroblast-neonate MicroRNA	1 µg
SC-2319	HDF-n gDNA	Human Dermal Fibroblast-neonate Genomic DNA	5 µg
SC-2320	HDF-a	Human Dermal Fibroblasts-adult	5 × 10 ⁵ cells/vial
SC-2321	FM-acf	Fibroblast Medium-animal component free	500 ml
SC-2321-b	FM-acf-b	Fibroblast Medium-animal component free-basal	500 ml
SC-2321-b-prf	FM-acf-b-prf	Fibroblast Medium-animal component free-basal-phenol red free	500 ml
SC-2321-prf	FM-acf-prf	Fibroblast Medium-animal component free-phenol red free	500 ml
SC-2324	HDF-a cDNA	Human Dermal Fibroblast-adult cDNA	20 reactions
SC-2325	HDF-a tRNA	Human Dermal Fibroblast-adult Total RNA	10 µg
SC-2326	HDF-a Lysate	Human Dermal Fibroblast-adult Lysate	200 µg
SC-2327	HDF-a miRNA	Human Dermal Fibroblast-adult MicroRNA	1 µg
SC-2329	HDF-a gDNA	Human Dermal Fibroblast-adult Genomic DNA	5 µg
SC-2331	FM-2	Fibroblast Medium-2	500 ml
SC-2331-b	FM-2 -b	Fibroblast Medium-2-basal	500 ml
SC-2331-b-prf	FM-2 -b-prf	Fibroblast Medium-2-basal-phenol red free	500 ml
SC-2331-prf	FM-2-prf	Fibroblast Medium-2-phenol red free	500 ml
SC-2350	HDF-f-mt	Human Dermal Fibroblasts-fetal-mitomycin C treated	1 × 10 ⁶ cells/vial
SC-2352	FGS	Fibroblast Growth Supplement	5 ml
SC-2355	HDF-f-mt HA tRNA	Human Dermal Fibroblast-fetal-mitomycin C treated Total RNA	10 µg
SC-2356	HDF-f-mt Lysate	Human Dermal Fibroblast-fetal-mitomycin C treated Lysate	200 µg
SC-2359	HDF-f-mt gDNA	Human Dermal Fibroblast-fetal-mitomycin C treated Genomic DNA	5 µg
SC-2362	FGS-sf	Fibroblast Growth Supplement-serum free	5 ml
SC-2372	FGS-acf	Fibroblast Growth Supplement-animal component free	5 ml

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-2382	FGS-2	Fibroblast Growth Supplement-2	5 ml
SC-2400	HHDPC	Human Hair Dermal Papilla Cells	5 × 10 ⁵ cells/vial
SC-2404	HHDPC cDNA	Human Hair Dermal Papilla Cell cDNA	20 reactions
SC-2405	HHDPC tRNA	Human Hair Dermal Papilla Cell Total RNA	10 µg
SC-2406	HHDPC Lysate	Human Hair Dermal Papilla Cell Lysate	200 µg
SC-2407	HHDP miRNA	Human Hair Dermal Papilla Cell MicroRNA	1 µg
SC-2409	HHDP gDNA	Human Hair Dermal Papilla Cell Genomic DNA	5 µg
SC-2410	HHGMC	Human Hair Germinal Matrix Cells	5 × 10 ⁵ cells/vial
SC-2414	HHGMC cDNA	Human Hair Germinal Matrix Cell cDNA	20 reactions
SC-2415	HHGMC tRNA	Human Hair Germinal Matrix Cell Total RNA	10 µg
SC-2416	HHGMC Lysate	Human Hair Germinal Matrix Cell Lysate	200 µg
SC-2417	HHGMC miRNA	Human Hair Germinal Matrix Cell MicroRNA	1 µg
SC-2419	HHGMC gDNA	Human Hair Germinal Matrix Cell Genomic DNA	5 µg
SC-2420	HHORSC	Human Hair Outer Root Sheath Cells	5 × 10 ⁵ cells/vial
SC-2424	HHORSC cDNA	Human Hair Outer Root Sheath Cell cDNA	20 reactions
SC-2425	HHORSC tRNA	Human Hair Outer Root Sheath Cell Total RNA	10 µg
SC-2426	HHORSC Lysate	Human Hair Outer Root Sheath Cell Lysate	200 µg
SC-2427	HHORSC miRNA	Human Hair Outer Root Sheath Cell MicroRNA	1 µg
SC-2429	HHORSC gDNA	Human Hair Outer Root Sheath Cell Genomic DNA	5 µg
SC-2430	HHIRSC	Human Hair Inner Root Sheath Cells	5 × 10 ⁵ cells/vial
SC-2434	HHIRSC cDNA	Human Hair Inner Root Sheath Cell cDNA	20 reactions
SC-2435	HHIRSC tRNA	Human Hair Inner Root Sheath Cell Total RNA	10 µg
SC-2436	HHIRSC Lysate	Human Hair Inner Root Sheath Cell Lysate	200 µg
SC-2437	HHIRSC miRNA	Human Hair Inner Root Sheath Cell MicroRNA	1 µg
SC-2439	HHIRSC gDNA	Human Hair Inner Root Sheath Cell Genomic DNA	5 µg
SC-2440	HHFK	Human Hair Follicular Keratinocytes	5 × 10 ⁵ cells/vial
SC-2444	HHFK cDNA	Human Hair Follicular Keratinocyte cDNA	20 reactions
SC-2445	HHFK tRNA	Human Hair Follicular Keratinocyte Total RNA	10 µg
SC-2446	HHFK Lysate	Human Hair Follicular Keratinocyte Lysate	200 µg
SC-2447	HHFK miRNA	Human Hair Follicular Keratinocyte MicroRNA	1 µg
SC-2449	HHFK gDNA	Human Hair Follicular Keratinocyte Genomic DNA	5 µg
Human lymphatic tissue			
SC-2500	HLEC	Human Lymphatic Endothelial Cells	5 × 10 ⁵ cells/vial
SC-2504	HLEC cDNA	Human Lymphatic Endothelial Cell cDNA	20 reactions
SC-2505	HLEC tRNA	Human Lymphatic Endothelial Cell Total RNA	10 µg
SC-2506	HLEC Lysate	Human Lymphatic Endothelial Cell Lysate	200 µg
SC-2507	HLEC miRNA	Human Lymphatic Endothelial Cell MicroRNA	1 µg
SC-2509	HLEC gDNA	Human Lymphatic Endothelial Cell Genomic DNA	5 µg
SC-2530	HLF	Human Lymphatic Fibroblasts	5 × 10 ⁵ cells/vial
SC-2534	HLF cDNA	Human Lymphatic Fibroblast cDNA	20 reactions
SC-2535	HLF tRNA	Human Lymphatic Fibroblast Total RNA	10 µg
SC-2536	HLF Lysate	Human Lymphatic Fibroblast Lysate	200 µg
SC-2537	HLF miRNA	Human Lymphatic Fibroblast MicroRNA	1 µg
SC-2539	HLF gDNA	Human Lymphatic Fibroblast Genomic DNA	5 µg
SC-2540	HlyMC	Human Lymphatic Mononuclear Cells	10 million cells in 1 ml volume
SC-2550	HTEC	Human Tonsil Endothelial Cells	5 × 10 ⁵ cells/vial
SC-2554	HTECcDNA	Human Tonsil Endothelial Cell cDNA	20 reactions
SC-2555	HTECtRNA	Human Tonsil Endothelial Cell Total RNA	5 µg

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-2556	HTECLysate	Human Tonsil Endothelial Cell Lysate	200 µg
SC-2557	HTECmiRNA	Human Tonsil Endothelial Cell MicroRNA	1 µg
SC-2559	HTECgDNA	Human Tonsil Endothelial Cell Genomic DNA	5 µg
SC-2560	HTepiC	Human Tonsil Epithelial Cells	5 × 10 ⁵ cells/vial
SC-2561	TEpiCM	Tonsil Epithelial Cell Medium	500 ml
SC-2561-b	TEpiCM-b	Tonsil Epithelial Cell Medium-basal	500 ml
SC-2561-b-prf	TEpiCM-b-prf	Tonsil Epithelial Cell Medium-basal-phenol red free	500 ml
SC-2561-prf	TEpiCM-prf	Tonsil Epithelial Cell Medium-phenol red free	500 ml
SC-2564	HTepiC cDNA	Human Tonsil Epithelial Cell cDNA	20 reactions
SC-2565	HTF HA tRNA	Human Tonsil Epithelial Cell tRNA	10 µg
SC-2566	HTepiC Lysate	Human Tonsil Epithelial Cell Lysate	200 µg
SC-2567	HTepiC miRNA	Human Tonsil Epithelial Cell MicroRNA	1 µg
SC-2569	HTepiC gDNA	Human Tonsil Epithelial Cell Genomic DNA	5 µg
SC-2570	HTF	Human Tonsil Fibroblasts	5 × 10 ⁵ cells/vial
SC-2572	TEpiCGS	Tonsil Epithelial Cell Growth Supplement	5 ml
SC-2574	HTF cDNA	Human Tonsil Fibroblast cDNA	20 reactions
SC-2575	HTF tRNA	Human Tonsil Fibroblast Total RNA	10 µg
SC-2576	HTF Lysate	Human Tonsil Fibroblast Lysate	200 µg
SC-2577	HTF miRNA	Human Tonsil Fibroblast MicroRNA	1 µg
SC-2579	HTF gDNA	Human Tonsil Fibroblast Genomic DNA	5 µg
Human alimentary system			
SC-2610	HOK	Human Oral Keratinocytes	5 × 10 ⁵ cells/vial
SC-2611	OKM	Oral Keratinocyte Medium	500 ml
SC-2611-b	OKM-b	Oral Keratinocyte Medium-basal	500 ml
SC-2611-b-prf	OKM-b-prf	Oral Keratinocyte Medium-basal-phenol red free	500 ml
SC-2611-prf	OKM-prf	Oral Keratinocyte Medium-phenol red free	500 ml
SC-2614	HOK cDNA	Human Oral Keratinocyte cDNA	20 reactions
SC-2615	HOK tRNA	Human Oral Keratinocyte Total RNA	10 µg
SC-2616	HOK Lysate	Human Oral Keratinocyte Lysate	200 µg
SC-2617	HOK miRNA	Human Oral Keratinocyte MicroRNA	1 µg
SC-2619	HOK gDNA	Human Oral Keratinocyte Genomic DNA	5 µg
SC-2620	HGnF	Human Gingival Fibroblasts	5 × 10 ⁵ cells/vial
SC-2624	HGF cDNA	Human Gingival Fibroblast cDNA	20 reactions
SC-2625	HGF tRNA	Human Gingival Fibroblast Total RNA	10 µg
SC-2626	HGF Lysate	Human Gingival Fibroblast Lysate	200 µg
SC-2627	HGF miRNA	Human Gingival Fibroblast MicroRNA	1 µg
SC-2629	HGF gDNA	Human Gingival Fibroblast Genomic DNA	5 µg
SC-2630	HPLF	Human Peridontal Ligament Fibroblasts	5 × 10 ⁵ cells/vial
SC-2634	HPLF cDNA	Human Peridontal Ligament Fibroblast cDNA	20 reactions
SC-2635	HPLF tRNA	Human Peridontal Ligament Fibroblast Total RNA	10 µg
SC-2636	HPLF Lysate	Human Peridontal Ligament Fibroblast Lysate	200 µg
SC-2637	HPLF miRNA	Human Peridontal Ligament Fibroblast MicroRNA	1 µg
SC-2639	HPLF gDNA	Human Peridontal Ligament Fibroblast Genomic DNA	5 µg
SC-2640	HOrF	Human Oral Fibroblasts	5 × 10 ⁵ cells/vial
SC-2644	HOrF cDNA	Human Oral Fibroblasts cDNA	20 reactions
SC-2645	HOrF tRNA	Human Oral Fibroblast Total RNA	5 µg
SC-2646	HOrF Lysate	Human Oral Fibroblast Lysate	200 µg
SC-2647	HOrF miRNA	Human Oral Fibroblast MicroRNA	1 µg

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-2649	HOrF gDNA	Human Oral Fibroblast Genomic DNA	5 µg
SC-2652	OKGS	Oral Keratinocyte Growth Supplement	5 ml
SC-2700	HEsMEC	Human Esophageal Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-2704	HEsMEC cDNA	Human Esophageal Microvascular Endothelial Cell cDNA	20 reactions
SC-2705	HEsMEC tRNA	Human Esophageal Microvascular Endothelial Cell Total RNA	10 µg
SC-2706	HEsMEC Lysate	Human Esophageal Microvascular Endothelial Cell Lysate	200 µg
SC-2707	HEsMEC miRNA	Human Esophageal Microvascular Endothelial Cell MicroRNA	1 µg
SC-2709	HEsMEC gDNA	Human Esophageal Microvascular Endothelial Cell Genomic DNA	5 µg
SC-2710	HEsSMC	Human Esophageal Smooth Muscle Cells	5 × 10 ⁵ cells/vial
SC-2714	HEsSMC cDNA	Human Esophageal Smooth Muscle Cell cDNA	20 reactions
SC-2715	HEsSMC tRNA	Human Esophageal Smooth Muscle Cell Total RNA	10 µg
SC-2716	HEsSMC Lysate	Human Esophageal Smooth Muscle Cell Lysate	200 µg
SC-2717	HEsSMC miRNA	Human Esophageal Smooth Muscle Cell MicroRNA	1 µg
SC-2719	HEsSMC gDNA	Human Esophageal Smooth Muscle Cell Genomic DNA	5 µg
SC-2720	HEsEpiC	Human Esophageal Epithelial Cells	5 × 10 ⁵ cells/vial
SC-2724	HEsEpiC cDNA	Human Esophageal Epithelial Cell cDNA	20 reactions
SC-2725	HEsEpiC tRNA	Human Esophageal Epithelial Cell Total RNA	10 µg
SC-2726	HEsEpiC Lysate	Human Esophageal Epithelial Cell Lysate	200 µg
SC-2727	HEsEpiC miRNA	Human Esophageal Epithelial Cell MicroRNA	1 µg
SC-2729	HEsEpiC gDNA	Human Esophageal Epithelial Cell Genomic DNA	5 µg
SC-2730	HEsF	Human Esophageal Fibroblasts	5 × 10 ⁵ cells/vial
SC-2734	HEsF cDNA	Human Esophageal Fibroblast cDNA	20 reactions
SC-2735	HEsF tRNA	Human Esophageal Fibroblast Total RNA	10 µg
SC-2736	HEsF Lysate	Human Esophageal Fibroblast Lysate	200 µg
SC-2737	HEsF miRNA	Human Esophageal Fibroblast MicroRNA	1 µg
SC-2739	HEsF gDNA	Human Esophageal Fibroblast Genomic DNA	5 µg
SC-2810	HGSMC	Human Gastric Smooth Muscle Cells	5 × 10 ⁵ cells/vial
SC-2814	HGSMC cDNA	Human Gastric Smooth Muscle Cell cDNA	20 reactions
SC-2815	HGSMC tRNA	Human Gastric Smooth Muscle Cell Total RNA	10 µg
SC-2816	HGSMC Lysate	Human Gastric Smooth Muscle Cell Lysate	200 µg
SC-2817	HGSMC miRNA	Human Gastric Smooth Muscle Cell MicroRNA	1 µg
SC-2819	HGSMC gDNA	Human Gastric Smooth Muscle Cell Genomic DNA	5 µg
SC-2830	HGF	Human Gastric Fibroblasts	5 × 10 ⁵ cells/vial
SC-2834	HGF cDNA	Human Gastric Fibroblast cDNA	20 reactions
SC-2835	HGF tRNA	Human Gastric Fibroblast Total RNA	10 µg
SC-2836	HGF Lysate	Human Gastric Fibroblast Lysate	200 µg
SC-2837	HGF miRNA	Human Gastric Fibroblast MicroRNA	1 µg
SC-2839	HGF gDNA	Human Gastric Fibroblast Genomic DNA	5 µg
SC-2900	HIMEC	Human Intestinal Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-2904	HIMEC cDNA	Human Intestinal Microvascular Endothelial Cell cDNA	20 reactions
SC-2905	HIMEC tRNA	Human Intestinal Microvascular Endothelial Cell Total RNA	10 µg
SC-2906	HIMEC Lysate	Human Intestinal Microvascular Endothelial Cell Lysate	200 µg
SC-2907	HIMEC miRNA	Human Intestinal Microvascular Endothelial Cell MicroRNA	1 µg
SC-2909	HIMEC gDNA	Human Intestinal Microvascular Endothelial Cell Genomic DNA	5 µg
SC-2910	HISMC	Human Intestinal Smooth Muscle Cells	5 × 10 ⁵ cells/vial
SC-2914	HISMC cDNA	Human Intestinal Smooth Muscle Cell cDNA	20 reactions
SC-2915	HISMC tRNA	Human Intestinal Smooth Muscle Cell Total RNA	10 µg
SC-2916	HISMCL	Human Intestinal Smooth Muscle Cell Lysate	200 µg

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-2917	HISMC miRNA	Human Intestinal Smooth Muscle Cell MicroRNA	1 µg
SC-2919	HISMC gDNA	Human Intestinal Smooth Muscle Cell Genomic DNA	5 µg
SC-2920	HIF	Human Intestinal Fibroblasts	5 × 10 ⁵ cells/vial
SC-2924	HIF cDNA	Human Intestinal Fibroblast cDNA	20 reactions
SC-2925	HIF tRNA	Human Intestinal Fibroblast Total RNA	10 µg
SC-2926	HIF Lysate	Human Intestinal Fibroblast Lysate	200 µg
SC-2927	HIF miRNA	Human Intestinal Fibroblast MicroRNA	1 µg
SC-2929	HIF gDNA	Human Intestinal Fibroblast Genomic DNA	5 µg
SC-2930	HCoMEC	Human Colonic Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-2934	HCoMEC cDNA	Human Colonic Microvascular Endothelial Cell cDNA	20 reactions
SC-2935	HCoMEC tRNA	Human Colonic Microvascular Endothelial Cell Total RNA	10 µg
SC-2936	HCoMEC Lysate	Human Colonic Microvascular Endothelial Cell Lysate	200 µg
SC-2937	HCoMEC miRNA	Human Colonic Microvascular Endothelial Cell MicroRNA	1 µg
SC-2939	HCoMEC gDNA	Human Colonic Microvascular Endothelial Cell Genomic DNA	5 µg
SC-2940	HCoSMC	Human Colonic Smooth Muscle Cells	5 × 10 ⁵ cells/vial
SC-2944	HCoSMC cDNA	Human Colonic Smooth Muscle Cell cDNA	20 reactions
SC-2945	HCoSMC tRNA	Human Colonic Smooth Muscle Cell Total RNA	10 µg
SC-2946	HCoSMC Lysate	Human Colonic Smooth Muscle Cell Lysate	200 µg
SC-2947	HCoSMC miRNA	Human Colonic Smooth Muscle Cell MicroRNA	1 µg
SC-2949	HCoSMC gDNA	Human Colonic Smooth Muscle Cell Genomic DNA	5 µg
SC-2950	HCoEpiC	Human Colonic Epithelial Cells	5 × 10 ⁵ cells/vial
SC-2951	CoEpiCM	Colonic Epithelial Cell Medium	500 ml
SC-2951-b	CoEpiCM-b	Colonic Epithelial Cell Medium-basal	500 ml
SC-2951-b-prf	CoEpiCM-b-prf	Colonic Epithelial Cell Medium-basal-phenol red free	500 ml
SC-2951-prf	CoEpiCM-prf	Colonic Epithelial Cell Medium-phenol red free	500 ml
SC-2952	CoEpiCGS	Colonic Epithelial Cell Growth Supplement	5 ml
SC-2954	HCoEpiC cDNA	Human Colonic Epithelial Cell cDNA	20 reactions
SC-2955	HCoEpiC tRNA	Human Colonic Epithelial Cell Total RNA	10 µg
SC-2956	HCoEpiC Lysate	Human Colonic Epithelial Cell Lysate	200 µg
SC-2957	HCoEpiC miRNA	Human Colonic Epithelial Cell MicroRNA	1 µg
SC-2959	HCoEpiC gDNA	Human Colonic Epithelial Cells Genomic DNA	5 µg
SC-2960	HRecF	Human Rectal Fibroblasts	5 × 10 ⁵ cells/vial
SC-2970	HRecMEC	Human Rectal Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-2974	HRecMEC cDNA	Human Rectal Microvascular Endothelial Cell cDNA	20 reactions
SC-2975	HRecMEC tRNA	Human Rectal Microvascular Endothelial Cell Total RNA	10 µg
SC-2976	HRecMEC Lysate	Human Rectal Microvascular Endothelial Cell Lysate	200 µg
SC-2977	HRecMEC miRNA	Human Rectal Microvascular Endothelial Cell MicroRNA	1 µg
SC-2980	HRecSMC	Human Rectal Smooth Muscle Cells	5 × 10 ⁵ cells/vial
SC-2984	HRecSMC cDNA	Human Rectal Smooth Muscle Cell cDNA	20 reactions
SC-2985	HRecSMC tRNA	Human Rectal Smooth Muscle Cell Total RNA	10 µg
SC-2986	HRecSMC Lysate	Human Rectal Smooth Muscle Cell Lysate	200 µg
SC-2987	HRecSMC miRNA	Human Rectal Smooth Muscle Cell MicroRNA	1 µg
SC-2989	HRecSMC gDNA	Human Rectal Smooth Muscle Cell Genomic DNA	5 µg
SC-2999	HRecMEC gDNA	Human Rectal Microvascular Endothelial Cell Genomic DNA	5 µg
Human respiratory system			
SC-3000	HPMEC	Human Pulmonary Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-3004	HPMEC cDNA	Human Pulmonary Microvascular Endothelial Cell cDNA	20 reactions
SC-3005	HPMEC tRNA	Human Pulmonary Microvascular Endothelial Cell Total RNA	10 µg

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-3006	HPMEC Lysate	Human Pulmonary Microvascular Endothelial Cell Lysate	200 µg
SC-3007	HPMEC miRNA	Human Pulmonary Microvascular Endothelial Cell MicroRNA	1 µg
SC-3009	HPMEC gDNA	Human Pulmonary Microvascular Endothelial Cell Genomic DNA	5 µg
SC-3100	HPAEC	Human Pulmonary Artery Endothelial Cells	5 × 10 ⁵ cells/vial
SC-3104	HPAEC cDNA	Human Pulmonary Artery Endothelial Cell cDNA	20 reactions
SC-3105	HPAEC tRNA	Human Pulmonary Artery Endothelial Cell Total RNA	10 µg
SC-3106	HPAEC Lysate	Human Pulmonary Artery Endothelial Cell Lysate	200 µg
SC-3107	HPAEC miRNA	Human Pulmonary Artery Endothelial Cell MicroRNA	1 µg
SC-3109	HPAEC gDNA	Human Pulmonary Artery Endothelial Cell Genomic DNA	5 µg
SC-3110	HPASMC	Human Pulmonary Artery Smooth Muscle Cells	5 × 10 ⁵ cells/vial
SC-3114	HPASMC cDNA	Human Pulmonary Artery Smooth Muscle Cell cDNA	20 reactions
SC-3115	HPASMC tRNA	Human Pulmonary Artery Smooth Muscle Cell Total RNA	10 µg
SC-3116	HPASMC Lysate	Human Pulmonary Artery Smooth Muscle Cell Lysate	200 µg
SC-3117	HPASMC miRNA	Human Pulmonary Artery Smooth Muscle Cell MicroRNA	1 µg
SC-3119	HPASMC gDNA	Human Pulmonary Artery Smooth Muscle Cell Genomic DNA	5 µg
SC-3120	HAAAF	Human Pulmonary Artery Adventitial Fibroblasts	5 × 10 ⁵ cells/vial
SC-3124	HAAAF cDNA	Human Pulmonary Artery Adventitial Fibroblast cDNA	20 reactions
SC-3125	HAAAF tRNA	Human Pulmonary Artery Adventitial Fibroblast Total RNA	10 µg
SC-3126	HAAAF Lysate	Human Pulmonary Artery Adventitial Fibroblast Lysate	200 µg
SC-3127	HAAAF miRNA	Human Pulmonary Artery Adventitial Fibroblast MicroRNA	1 µg
SC-3129	HAAAF gDNA	Human Pulmonary Artery Adventitial Fibroblast Genomic DNA	5 µg
SC-3200	HPAEpiC	Human Pulmonary Alveolar Epithelial Cells	1 × 10 ⁶ cells/vial
SC-3201	AEpiCM	Alveolar Epithelial Cell Medium	500 ml
SC-3201-b	AEpiCM-b	Alveolar Epithelial Medium-basal	500 ml
SC-3201-b-prf	AEpiCM-b-prf	Alveolar Epithelial Medium-basal-phenol red free	500 ml
SC-3201-prf	AEpiCM-prf	Alveolar Epithelial Medium-phenol red free	500 ml
SC-3204	HPAEpiC cDNA	Human Pulmonary Alveolar Epithelial Cell cDNA	20 reactions
SC-3205	HPAEpiC tRNA	Human Pulmonary Alveolar Epithelial Cell Total RNA	10 µg
SC-3206	HPAEpiC Lysate	Human Pulmonary Alveolar Epithelial Cell Lysate	200 µg
SC-3207	HPAEpiC miRNA	Human Pulmonary Alveolar Epithelial Cell MicroRNA	1 µg
SC-3209	HPAEpiC gDNA	Human Pulmonary Alveolar Epithelial Cell Genomic DNA	5 µg
SC-3210	HBEPiC	Human Bronchial Epithelial Cells	5 × 10 ⁵ cells/vial
SC-3211	BEpiCM	Bronchial Epithelial Cell Medium	500 ml
SC-3211-b	BEpiCM-b	Bronchial Epithelial Cell Medium-basal	500 ml
SC-3211-b-prf	BEpiCM-b-prf	Bronchial Epithelial Cell Medium-basal-phenol red free	500 ml
SC-3211-prf	BEpiCM-prf	Bronchial Epithelial Cell Medium-phenol red free	500 ml
SC-3214	HBEPiC cDNA	Human Bronchial Epithelial Cell cDNA	20 reactions
SC-3215	HBEPiC tRNA	Human Bronchial Epithelial Cell Total RNA	10 µg
SC-3216	HBEPiC Lysate	Human Bronchial Epithelial Cell Lysate	200 µg
SC-3217	HBEPiC miRNA	Human Bronchial Epithelial Cell MicroRNA	1 µg
SC-3219	HBEPiC gDNA	Human Bronchial Epithelial Cell Genomic DNA	5 µg
SC-3220	HTEpiC	Human Tracheal Epithelial Cells	5 × 10 ⁵ cells/vial
SC-3224	HTEpiC cDNA	Human Tracheal Epithelial Cell cDNA	20 reactions
SC-3225	HTEpiC tRNA	Human Tracheal Epithelial Cell Total RNA	10 µg
SC-3226	HTEpiC Lysate	Human Tracheal Epithelial Cell Lysate	200 µg
SC-3227	HTEpiC miRNA	Human Tracheal Epithelial Cell MicroRNA	1 µg
SC-3229	HTEpiC gDNA	Human Tracheal Epithelial Cell Genomic DNA	5 µg
SC-3230	HPSAEpiC	Human Small Airway Epithelial Cells	5 × 10 ⁵ cells/vial

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-3231	SAEpiCM	Small Airway Epithelial Cell Medium	500 ml
SC-3231-b	SAEpiCM-b	Small Airway Epithelial Cell Medium-basal	500 ml
SC-3231-b-prf	SAEpiCM-b-prf	Small Airway Epithelial Cell Medium-basal-phenol red free	500 ml
SC-3231-prf	SAEpiCM-prf	Small Airway Epithelial Cell Medium-phenol red free	500 ml
SC-3234	HSAEpiC cDNA	Human Small Airway Epithelial Cell cDNA	20 reactions
SC-3235	HSAEpiC tRNA	Human Small Airway Epithelial Cell Total RNA	10 µg
SC-3236	HSAEpiC Lysate	Human Small Airway Epithelial Cell Lysate	200 µg
SC-3237	HSAEpiC miRNA	Human Small Airway Epithelial Cell MicroRNA	1 µg
SC-3239	HSAEpiC gDNA	Human Small Airway Epithelial Cell Genomic DNA	5 µg
SC-3262	BEpiCGS	Bronchial Epithelial Cell Growth Supplement	5 ml
SC-3272	SAEpiCSG	Small Airway Epithelial Cell Growth Supplement	5 ml
SC-3300	HPF	Human Pulmonary Fibroblasts	5 × 10 ⁵ cells/vial
SC-3304	HPF cDNA	Human Pulmonary Fibroblast cDNA	20 reactions
SC-3305	HPF tRNA	Human Pulmonary Fibroblast Total RNA	10 µg
SC-3306	HPF Lysate	Human Pulmonary Fibroblast Lysate	200 µg
SC-3307	HPF miRNA	Human Pulmonary Fibroblast MicroRNA	1 µg
SC-3309	HPF gDNA	Human Pulmonary Fibroblast Genomic DNA	5 µg
SC-3310	HPF-a	Human Pulmonary Fibroblasts-adult	5 × 10 ⁵ cells/vial
SC-3314	HPF-a cDNA	Human Pulmonary Fibroblast-adult cDNA	20 reactions
SC-3315	HPF-a tRNA	Human Pulmonary Fibroblast-adult Total RNA	10 µg
SC-3316	HPF-a Lysate	Human Pulmonary Fibroblast-adult Lysate	200 µg
SC-3317	HPF-a miRNA	Human Pulmonary Fibroblast-adult MicroRNA	1 µg
SC-3319	HPF-a gDNA	Human Pulmonary Fibroblast-adult Genomic DNA	5 µg
SC-3400	HBSMC	Human Bronchial Smooth Muscle Cells	5 × 10 ⁵ cells/vial
SC-3404	HBSMC cDNA	Human Bronchial Smooth Muscle Cell cDNA	20 reactions
SC-3405	HBSMC tRNA	Human Bronchial Smooth Muscle Cell Total RNA	10 µg
SC-3406	HBSMC Lysate	Human Bronchial Smooth Muscle Cell Lysate	200 µg
SC-3407	HBSMC miRNA	Human Bronchial Smooth Muscle Cell MicroRNA	1 µg
SC-3409	HBSMC gDNA	Human Bronchial Smooth Muscle Cell Genomic DNA	5 µg
SC-3410	HTSMC	Human Tracheal Smooth Muscle Cells	5 × 10 ⁵ cells/vial
SC-3414	HTSMC cDNA	Human Tracheal Smooth Muscle Cell cDNA	20 reactions
SC-3415	HTSMC tRNA	Human Tracheal Smooth Muscle Cell Total RNA	10 µg
SC-3416	HTSMC Lysate	Human Tracheal Smooth Muscle Cell Lysate	200 µg
SC-3417	HTSMC miRNA	Human Tracheal Smooth Muscle Cell MicroRNA	1 µg
SC-3419	HTSMC gDNA	Human Tracheal Smooth Muscle Cell Genomic DNA	5 µg
SC-3420	HBF	Human Bronchial Fibroblasts	5 × 10 ⁵ cells/vial
SC-3424	HBF cDNA	Human Bronchial Fibroblast cDNA	20 reactions
SC-3425	HBF Total RNA	Human Bronchial Fibroblast Total RNA	10 µg
SC-3426	HBF Lysate	Human Bronchial Fibroblast Lysate	200 µg
SC-3427	HBF miRNA	Human Bronchial Fibroblast MicroRNA	1 µg
SC-3429	HBF gDNA	Human Bronchial Fibroblast Genomic DNA	5 µg
SC-3430	HTrF	Human Tracheal Fibroblasts	5 × 10 ⁵ cells/vial
SC-3434	HTrF cDNA	Human Tracheal Fibroblast cDNA	20 reactions
SC-3435	HTrF tRNA	Human Tracheal Fibroblast Total RNA	5 µg
SC-3436	HTrF Lysate	Human Tracheal Fibroblast Lysate	200 µg
SC-3437	HTrF miRNA	Human Tracheal Fibroblast MicroRNA	1 µg
SC-3439	HTrF gDNA	Human Tracheal Fibroblast Genomic DNA	10 µg

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
Human musculoskeletal cells			
SC-3500	HskMC	Human Skeletal Muscle Cells	5 × 10 ⁵ cells/vial
SC-3501	SkMCM	Skeletal Muscle Cell Medium	500 ml
SC-3501-b	SkMCM-b	Skeletal Muscle Cell Medium-basal	500 ml
SC-3501-b-prf	SkMCM-b-prf	Skeletal Muscle Cell Medium-basal-phenol red free	500 ml
SC-3501-prf	SkMCM-prf	Skeletal Muscle Cell Medium-phenol red free	500 ml
SC-3504	HskMC cDNA	Human Skeletal Muscle Cell cDNA	20 reactions
SC-3505	HskMC tRNA	Human Skeletal Muscle Cell Total RNA	10 µg
SC-3506	HskMC Lysate	Human Skeletal Muscle Cell Lysate	200 µg
SC-3507	HskMC miRNA	Human Skeletal Muscle Cell MicroRNA	1 µg
SC-3509	HskMC gDNA	Human Skeletal Muscle Cell Genomic DNA	5 µg
SC-3510	HskMSC	Human Skeletal Muscle Satellite Cells	5 × 10 ⁵ cells/vial
SC-3514	HskMSC cDNA	Human Skeletal Muscle Satellite Cell cDNA	20 reactions
SC-3515	HskMSC tRNA	Human Skeletal Muscle Satellite Cell Total RNA	10 µg
SC-3516	HskMSC Lysate	Human Skeletal Muscle Satellite Cell Lysate	200 µg
SC-3517	HskMSC miRNA	Human Skeletal Muscle Satellite Cell MicroRNA	1 µg
SC-3519	HskMSC gDNA	Human Skeletal Muscle Satellite Cell Genomic DNA	5 µg
SC-3520	HskMM	Human Skeletal Muscle Myoblasts	5 × 10 ⁵ cells/vial
SC-3524	HskMM cDNA	Human Skeletal Muscle Myoblast cDNA	20 reactions
SC-3525	HskMM tRNA	Human Skeletal Muscle Myoblast Total RNA	10 µg
SC-3526	HskMM Lysate	Human Skeletal Muscle Myoblast Lysate	200 µg
SC-3527	HskMM miRNA	Human Skeletal Muscle Myoblast MicroRNA	1 µg
SC-3529	HskMM gDNA	Human Skeletal Muscle Myoblast Genomic DNA	5 µg
SC-3552	SkMCGS	Skeletal Muscle Cell Growth Supplement	5 ml
SC-3600	HAdMEC	Human Adrenal Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-3604	HAdMEC cDNA	Human Adrenal Microvascular Endothelial Cell cDNA	20 reactions
SC-3605	HAdMEC tRNA	Human Adrenal Microvascular Endothelial Cell Total RNA	10 µg
SC-3606	HAdMEC Lysate	Human Adrenal Microvascular Endothelial Cell Lysate	200 µg
SC-3607	HAdMEC miRNA	Human Adrenal Microvascular Endothelial Cell MicroRNA	1 µg
SC-3609	HAdMEC gDNA	Human Adrenal Microvascular Endothelial Cell Genomic DNA	5 µg
SC-3610	HAdCC	Human Adrenal Cortical Cells	5 × 10 ⁵ cells/vial
SC-3614	HAdCC cDNA	Human Adrenal Cortical Cell cDNA	20 reactions
SC-3615	HAdCC tRNA	Human Adrenal Cortical Cell Total RNA	10 µg
SC-3616	HAdCC Lysate	Human Adrenal Cortical Cell Lysate	200 µg
SC-3617	HAdCC miRNA	Human Adrenal Cortical Cell MicroRNA	1 µg
SC-3619	HAdCC gDNA	Human Adrenal Cortical Cells Genomic RNA	5 µg
SC-3630	HAdF	Human Adrenal Fibroblasts	5 × 10 ⁵ cells/vial
SC-3634	HAdF cDNA	Human Adrenal Fibroblast cDNA	20 reactions
SC-3635	HAdF tRNA	Human Adrenal Fibroblast Total RNA	10 µg
SC-3636	HAdF Lysate	Human Adrenal Fibroblast Lysate	200 µg
SC-3637	HAdF miRNA	Human Adrenal Fibroblast MicroRNA	1 µg
SC-3639	HAdF gDNA	Human Adrenal Fibroblast Genomic DNA	5 µg
SC-3730	HThF	Human Thyroid Fibroblasts	5 × 10 ⁵ cells/vial
SC-3734	HThF cDNA	Human Thyroid Fibroblasts cDNA	20 reactions
SC-3735	HThF tRNA	Human Thyroid Fibroblasts Total RNA	10 µg
SC-3736	HThF Lysate	Human Thyroid Fibroblasts Lysate	200 µg
SC-3737	HThF miRNA	Human Thyroid Fibroblasts MicroRNA	1 µg
SC-3739	HThF gDNA	Human Thyroid Fibroblasts Genomic DNA	5 µg

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-3800	HPaMEC	Human Pancreatic Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-3804	HPaMEC cDNA	Human Brain Microvascular Endothelial Cell cDNA	20 reactions
SC-3805	HPaMEC tRNA	Human Brain Microvascular Endothelial Cell Total RNA	10 µg
SC-3806	HPaMEC Lysate	Human Brain Microvascular Endothelial Cell Lysate	200 µg
SC-3807	HPaMEC miRNA	Human Brain Microvascular Endothelial Cell MicroRNA	1 µg
SC-3809	HPaMEC gDNA	Human Brain Microvascular Endothelial Cell Genomic DNA	5 µg
SC-3830	HPaStEC	Human Pancreatic Stellate Cells	5 × 10 ⁵ cells/vial
SC-3834	HPaStEC cDNA	Human Pancreatic Stellate Cell cDNA	20 reactions
SC-3835	HPaStEC tRNA	Human Pancreatic Stellate Cell Total RNA	10 µg
SC-3836	HPaStEC Lysate	Human Pancreatic Stellate Cell Lysate	200 µg
SC-3837	HPaStEC miRNA	Human Pancreatic Stellate Cell MicroRNA	1 µg
SC-3839	HPaStEC gDNA	Human Pancreatic Stellate Cell Genomic DNA	5 µg
SC-3910	HTyEpiC	Human Thymic Epithelial Cells	5 × 10 ⁵ cells/vial
SC-3911	TyEpiCM	Thymic Epithelial Cell Medium	500 ml
SC-3911-b	TyEpiCM-b	Thymic Epithelial Cell Medium-basal	500 ml
SC-3911-b-prf	TyEpiCM-b-prf	Thymic Epithelial Cell Medium-basal-phenol red free	500 ml
SC-3911-prf	TyEpiCM-prf	Thymic Epithelial Cell Medium-phenol red free	500 ml
SC-3930	HTyF	Human Thymic Fibroblasts	5 × 10 ⁵ cells/vial
SC-3934	HTyF cDNA	Human Thymic Fibroblast cDNA	20 reactions
SC-3935	HTyF tRNA	Human Thymic Fibroblast Total RNA	10 µg
SC-3936	HTyF Lysate	Human Thymic Fibroblast Lysate	200 µg
SC-3937	HTyF miRNA	Human Thymic Fibroblast MicroRNA	1 µg
SC-3939	HTyF gDNA	Human Thymic Fibroblast Genomic DNA	5 µg
SC-3962	TyEpiCGS	Thymic Epithelial Cell Growth Supplement	5 ml
Human renal/urothelial system			
SC-4000	HRGEC	Human Renal Glomerular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-4004	HRGEC cDNA	Human Renal Glomerular Endothelial Cell cDNA	20 reactions
SC-4005	HRGEC tRNA	Human Renal Glomerular Endothelial Cell Total RNA	10 µg
SC-4006	HRGEC Lysate	Human Renal Glomerular Endothelial Cell Lysate	200 µg
SC-4007	HRGEC miRNA	Human Renal Glomerular Endothelial Cell MicroRNA	1 µg
SC-4009	HRGEC gDNA	Human Renal Glomerular Endothelial Cell Genomic DNA	5 µg
SC-4100	HRPTEpiC	Human Renal Proximal Tubular Epithelial Cells	5 × 10 ⁵ cells/vial
SC-4101	EpiCM	Epithelial Cell Medium	500 ml
SC-4101-b	EpiCM-b	Epithelial Cell Medium-basal	500 ml
SC-4101-b-prf	EpiCM-b-prf	Epithelial Cell Medium-basal-phenol red free	500 ml
SC-4101-prf	EpiCM-prf	Epithelial Cell Medium-phenol red free	500 ml
SC-4104	HRPTEpiC cDNA	Human Renal Proximal Tubular Epithelial Cell cDNA	20 reactions
SC-4105	HRPTEpiC tRNA	Human Renal Proximal Tubular Epithelial Cell Total RNA	10 µg
SC-4106	HRPTEpiC Lysate	Human Renal Proximal Tubular Epithelial Cell Lysate	200 µg
SC-4107	HRPTEpiC miRNA	Human Renal Proximal Tubular Epithelial Cell MicroRNA	1 µg
SC-4109	HRPTEpiC gDNA	Human Renal Proximal Tubular Epithelial Cell Genomic DNA	5 µg
SC-4110	HRCEpiC	Human Renal Cortical Epithelial Cells	5 × 10 ⁵ cells/vial
SC-4114	HRCEpiC cDNA	Human Renal Cortical Epithelial Cell cDNA	20 reactions
SC-4115	HRCEpiC tRNA	Human Renal Cortical Epithelial Cell Total RNA	10 µg
SC-4116	HRCEpiC Lysate	Human Renal Cortical Epithelial Cell Lysate	200 µg
SC-4117	HRCEpiC miRNA	Human Renal Cortical Epithelial Cell MicroRNA	1 µg
SC-4119	HRCEpiC gDNA	Human Renal Cortical Epithelial Cell Genomic DNA	5 µg
SC-4120	HREpiC	Human Renal Epithelial Cells	5 × 10 ⁵ cells/vial

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-4121	EpiCM-2	Epithelial Cell Medium-2	500 ml
SC-4121-b	EpiCM-2-b	Epithelial Cell Medium-2-basal	500 ml
SC-4121-b-prf	EpiCM-2-b-prf	Epithelial Cell Medium-2-basal-phenol red free	500 ml
SC-4121-prf	EpiCM-2-prf	Epithelial Cell Medium-2-phenol red free	500 ml
SC-4124	HREpiC cDNA	Human Renal Epithelial Cell cDNA	20 reactions
SC-4125	HREpiC tRNA	Human Renal Epithelial Cell Total RNA	10 µg
SC-4126	HREpiC Lysate	Human Renal Epithelial Cell Lysate	200 µg
SC-4127	HREpiC miRNA	Human Renal Epithelial Cell MicroRNA	1 µg
SC-4129	HREpiC gDNA	Human Renal Epithelial Cell Genomic DNA	5 µg
SC-4131	EpiCM-a	Epithelial Cell Medium-animal	500 ml
SC-4131-b	EpiCM-a-b	Epithelial Cell Medium-animal-basal	500 ml
SC-4131-b-prf	EpiCM-a-b-prf	Epithelial Cell Medium-animal-basal-phenol red free	500 ml
SC-4131-prf	EpiCM-a-prf	Epithelial Cell Medium-animal-phenol red free	500 ml
SC-4152	EpiCGS	Epithelial Cell Growth Supplement	5 ml
SC-4162	EpiCGS-2	Epithelial Cell Growth Supplement-2	5 ml
SC-4182	EpiCGS-a	Epithelial Cell Growth Supplement-animal	5 ml
SC-4200	HRMC	Human Renal Mesangial Cells	5 × 10 ⁵ cells/vial
SC-4201	MCM	Mesangial Cell Medium	500 ml
SC-4201-b	MCM-b	Mesangial Cell Medium-basal	500 ml
SC-4201-b-prf	MCM-b-prf	Mesangial Cell Medium-basal-phenol red free	500 ml
SC-4201-prf	MCM-prf	Mesangial Cell Medium-phenol red free	500 ml
SC-4204	HRMC cDNA	Human Renal Mesangial Cell cDNA	20 reactions
SC-4205	HRMC tRNA	Human Renal Mesangial Cell Total RNA	10 µg
SC-4206	HRMC Lysate	Human Renal Mesangial Cell Lysate	200 µg
SC-4207	HRMC miRNA	Human Renal Mesangial Cell MicroRNA	1 µg
SC-4209	HRMC gDNA	Human Renal Mesangial Cell Genomic DNA	5 µg
SC-4252	MsCGS	Mesangial Cell Growth Supplement	5 ml
SC-4300	HBdMEC	Human Bladder Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-4304	HBdMEC cDNA	Human Bladder Microvascular Endothelial Cell cDNA	20 reactions
SC-4305	HBdMEC tRNA	Human Bladder Microvascular Endothelial Cell Total RNA	10 µg
SC-4306	HBdMEC Lysate	Human Bladder Microvascular Endothelial Cell Lysate	200 µg
SC-4307	HBdMEC miRNA	Human Bladder Microvascular Endothelial Cell MicroRNA	1 µg
SC-4309	HBdMEC gDNA	Human Bladder Microvascular Endothelial Cell Genomic DNA	5 µg
SC-4310	HBdSMC	Human Bladder Smooth Muscle Cells	5 × 10 ⁵ cells/vial
SC-4314	HBdSMC cDNA	Human Bladder Smooth Muscle Cell cDNA	20 reactions
SC-4315	HBdSMC tRNA	Human Bladder Smooth Muscle Cell Total RNA	10 µg
SC-4316	HBdSMC Lysate	Human Bladder Smooth Muscle Cell Lysate	200 µg
SC-4317	HBdSMC miRNA	Human Bladder Smooth Muscle Cell MicroRNA	1 µg
SC-4319	HBdSMC gDNA	Human Bladder Smooth Muscle Cell Genomic DNA	5 µg
SC-4320	HUC	Human Urothelial Cells	5 × 10 ⁵ cells/vial
SC-4321	UCM	Urothelial Cell Medium	500 ml
SC-4321-b	UCM-b	Urothelial Cell Medium-basal	500 ml
SC-4321-b-prf	UCM-b-prf	Urothelial Cell Medium-basal-phenol red free	500 ml
SC-4321-prf	UCM-prf	Urothelial Cell Medium-phenol red free	500 ml
SC-4324	HUC cDNA	Human Urothelial Cell cDNA	20 reactions
SC-4325	HUC tRNA	Human Urothelial Cell Total RNA	10 µg
SC-4326	HUC Lysate	Human Urothelial Cell Lysate	200 µg
SC-4327	HUC miRNA	Human Urothelial Cell MicroRNA	1 µg

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-4329	HUC gDNA	Human Urothelial Cell Genomic DNA	5 µg
SC-4330	HBdSF	Human Bladder Stromal Fibroblasts	5 × 10 ⁵ cells/vial
SC-4334	HBdSF cDNA	Human Bladder Stromal Fibroblast cDNA	20 reactions
SC-4335	HBdSF tRNA	Human Bladder Stromal Fibroblast Total RNA	10 µg
SC-4336	HBdSF Lysate	Human Bladder Stromal Fibroblast Lysate	200 µg
SC-4337	HBdSF miRNA	Human Bladder Stromal Fibroblast MicroRNA	1 µg
SC-4339	HBdSF gDNA	Human Bladder Stromal Fibroblast Genomic DNA	5 µg
SC-4352	UCGS	Urothelial Cell Growth Supplement	5 ml
SC-4400	HPrMEC	Human Prostate Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-4404	HPrMEC cDNA	Human Prostate Microvascular Endothelial Cell cDNA	20 reactions
SC-4405	HPrMEC tRNA	Human Prostate Microvascular Endothelial Cell Total RNA	10 µg
SC-4406	HPrMEC Lysate	Human Prostate Microvascular Endothelial Cell Lysate	200 µg
SC-4407	HPrMEC miRNA	Human Prostate Microvascular Endothelial Cell MicroRNA	1 µg
SC-4409	HPrMEC gDNA	Human Prostate Microvascular Endothelial Cell Genomic DNA	5 µg
SC-4410	HPrEpiC	Human Prostate Epithelial Cells	5 × 10 ⁵ cells/vial
SC-4411	PEpiCM	Prostate Epithelial Cells Medium	500 ml
SC-4411-b	PEpiCM-b	Prostate Epithelial Cells Medium-basal	500 ml
SC-4411-b-prf	PEpiCM-b-prf	Prostate Epithelial Cells Medium-basal-phenol red free	500 ml
SC-4411-prf	PEpiCM-prf	Prostate Epithelial Cells Medium-phenol red free	500 ml
SC-4414	HPrEpiC cDNA	Human Prostate Epithelial Cells cDNA	20 reactions
SC-4415	HPrEpiC rRNA	Human Prostate Epithelial Cells Total RNA	10 µg
SC-4416	HPrEpiC Lysate	Human Prostate Epithelial Cell Lysate	200 µg
SC-4417	HPrEpiC miRNA	Human Prostate Epithelial Cell MicroRNA	1 µg
SC-4419	HPrEpiC gDNA	Human Prostate Epithelial Cell Genomic DNA	5 µg
SC-4424	HPSMC cDNA	Human Prostate Smooth Muscle Cell cDNA	20 reactions
SC-4425	HPSMC tRNA	Human Prostate Smooth Muscle Cell Total RNA	10 µg
SC-4426	HPSMC Lysate	Human Prostate Smooth Muscle Cell Lysate	200 µg
SC-4427	HPSMC miRNA	Human Prostate Smooth Muscle Cell MicroRNA	1 µg
SC-4429	HPSMC gDNA	Human Prostate Smooth Muscle Cell Genomic DNA	5 µg
SC-4430	HPrF	Human Prostate Fibroblasts	5 × 10 ⁵ cells/vial
SC-4434	HPrF cDNA	Human Prostate Fibroblast cDNA	20 reactions
SC-4435	HPrF tDNA	Human Prostate Fibroblast Total RNA	10 µg
SC-4436	HPrF Lysate	Human Prostate Fibroblast Lysate	200 µg
SC-4437	HPrF miRNA	Human Prostate Fibroblast MicroRNA	1 µg
SC-4439	HPrF gDNA	Human Prostate Fibroblast Genomic DNA	5 µg
SC-4450	HSVMEC	Human Seminal Vesicle Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-4452	PEpiCGS	Prostate Epithelial Cell Growth Supplement	5 ml
SC-4454	HSVMEC cDNA	Human Seminal Vesicle Microvascular Endothelial Cell cDNA	20 reactions
SC-4455	HSVMEC tRNA	Human Seminal Vesicle Microvascular Endothelial Total RNA	10 µg
SC-4456	HSVMEC Lysate	Human Seminal Vesicle Microvascular Endothelial Cell Lysate	200 µg
SC-4457	HSVMEC miRNA	Human Seminal Vesicle Microvascular Endothelial Cell MicroRNA	1 µg
SC-4459	HSVMEC gDNA	Human Seminal Vesicle Microvascular Endothelial Cell Genomic DNA	5 µg
SC-4460	HSVEpiC	Human Seminal Vesicle Epithelial Cells	5 × 10 ⁵ cells/vial
SC-4464	HSVEpiC cDNA	Human Seminal Vesicle Epithelial Cell cDNA	20 reactions
SC-4465	HSVEpiC tRNA	Human Seminal Vesicle Epithelial Cell Total RNA	10 µg
SC-4466	HSVEpiC Lysate	Human Seminal Vesicle Epithelial Cell Lysate	200 µg
SC-4467	HSVEpiC miRNA	Human Seminal Vesicle Epithelial Cell MicroRNA	1 µg
SC-4469	HSVEpiC gDNA	Human Seminal Vesicle Epithelial Cell Genomic DNA	5 µg

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-4470	HSVF	Human Seminal Vesicle Fibroblasts	5 × 10 ⁵ cells/vial
SC-4474	HSVF cDNA	Human Seminal Vesicle Fibroblast cDNA	20 reactions
SC-4475	HSVF tRNA	Human Seminal Vesicle Fibroblast Total RNA	10 µg
SC-4476	HSVF Lysate	Human Seminal Vesicle Fibroblast Lysate	200 µg
SC-4477	HSVF miRNA	Human Seminal Vesicle Fibroblast MicroRNA	1 µg
SC-4479	HSVF gDNA	Human Seminal Vesicle Fibroblast Genomic DNA	5 µg
SC-4500	HTEC	Human Testicular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-4504	HTEC cDNA	Human Testicular Endothelial Cell cDNA	20 reactions
SC-4505	HTEC tRNA	Human Testicular Endothelial Cell Total RNA	10 µg
SC-4506	HTEC Lysate	Human Testicular Endothelial Cell Lysate	200 µg
SC-4507	HTEC miRNA	Human Testicular Endothelial Cell MicroRNA	1 µg
SC-4509	HTEC gDNA	Human Testicular Endothelial Cell Genomic DNA	5 µg
SC-4510	HLC	Human Leydig Cells	5 × 10 ⁵ cells/vial
SC-4511	LCM	Leydig Cell Medium	500 ml
SC-4511-b	LCM-b	Leydig Cell Medium-basal	500 ml
SC-4511-b-prf	LCM-b-prf	Leydig Cell Medium-basal-phenol red free	500 ml
SC-4511-prf	LCM-prf	Leydig Cell Medium-phenol red free	500 ml
SC-4514	HLC cDNA	Human Leydig Cell cDNA	20 reactions
SC-4515	HLC tRNA	Human Leydig Cell Total RNA	10 µg
SC-4516	HLC Lysate	Human Leydig Cell Lysate	200 µg
SC-4517	HLC miRNA	Human Leydig Cell MicroRNA	1 µg
SC-4519	HLC gDNA	Human Leydig Cell Genomic DNA	5 µg
SC-4520	HSerC	Human Sertoli Cells	5 × 10 ⁵ cells/vial
SC-4521	SerCM	Sertoli Cell Medium	500 ml
SC-4521-b	SerCM-b	Sertoli Cell Medium-basal	500 ml
SC-4521-b-prf	SerCM-b-prf	Sertoli Cell Medium-basal-phenol red free	500 ml
SC-4521-prf	SerCM-prf	Sertoli Cell Medium-phenol red free	500 ml
SC-4524	HSerC cDNA	Human Sertoli Cell cDNA	20 reactions
SC-4525	HSerC tRNA	Human Sertoli Cell Total RNA	10 µg
SC-4526	HSerC Lysate	Human Sertoli Cell Lysate	200 µg
SC-4527	HSerC miRNA	Human Sertoli Cell MicroRNA	1 µg
SC-4529	HSerC gDNA	Human Sertoli Cell Genomic DNA	5 µg
SC-4562	LCGS	Leydig Cell Growth Supplement	5 ml
SC-4572	SerCGS	Sertoli Cell Growth Supplement	5 ml
Human skeletal system			
SC-4600	HCO	Human Calvarial Osteoblasts	5 × 10 ⁵ cells/vial
SC-4601	ObM	Osteoblast Medium	500 ml
SC-4601-b	ObM-b	Osteoblast Medium-basal	500 ml
SC-4601-b-prf	ObM-b-prf	Osteoblast Medium-basal-phenol red free	500 ml
SC-4601-prf	ObM-prf	Osteoblast Medium-phenol red free	500 ml
SC-4604	HCO cDNA	Human Calvarial Osteoblast cDNA	20 reactions
SC-4605	HCO tRNA	Human Calvarial Osteoblast Total RNA	10 µg
SC-4606	HCO Lysate	Human Calvarial Osteoblast Lysate	200 µg
SC-4607	HCO miRNA	Human Calvarial Osteoblast MicroRNA	1 µg
SC-4609	HCO gDNA	Human Calvarial Osteoblast Genomic DNA	5 µg
SC-4610	HO-f	Human Osteoblasts-femural	5 × 10 ⁵ cells/vial
SC-4611	ObMM	Osteoblast Mineralization Medium	500 ml
SC-4611-b	ObMM-b	Osteoblast Mineralization Medium	500 ml

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-4611-prf	ObMM-prf	Osteoblast Mineralization Medium	500 ml
SC-4614	HO-f cDNA	Human Osteoblasts-femural cDNA	20 reactions
SC-4615	HO-f tRNA	Human Osteoblasts-femural Total RNA	10 µg
SC-4616	HO-f Lysate	Human Osteoblasts-femural Lysate	200 µg
SC-4617	HO-f miRNA	Human Osteoblasts-femural MicroRNA	1 µg
SC-4619	HO-f gDNA	Human Osteoblasts-femural Genomic DNA	5 µg
SC-4650	HC-a	Human Chondrocytes-articular	5 × 10 ⁵ cells/vial
SC-4651	CM	Chondrocyte Medium	500 ml
SC-4651-b	CM-b	Chondrocyte Medium-basal	500 ml
SC-4651-b-prf	CM-b-prf	Chondrocyte Medium-basal-phenol red free	500 ml
SC-4651-prf	CM-prf	Chondrocyte Medium-phenol red free	500 ml
SC-4652	ObGS	Osteoblast Growth Supplement	5 ml
SC-4654	HC-a cDNA	Human Chondrocytes-articular cDNA	20 reactions
SC-4655	HC-a tRNA	Human Chondrocytes-articular Total RNA	10 µg
SC-4656	HC-a Lysate	Human Chondrocytes-articular Lysate	200 µg
SC-4657	HC-a miRNA	Human Chondrocytes-articular MicroRNA	1 µg
SC-4659	HC-a gDNA	Human Chondrocytes-articular Genomic DNA	5 µg
SC-4672	ObMS	Osteoblast Mineralization Supplement	5 ml
SC-4682	CGS	Chondrocyte Growth Supplement	5 ml
SC-4700	HS	Human Synoviocytes	5 × 10 ⁵ cells/vial
SC-4701	SM	Synoviocyte Medium	500 ml
SC-4701-b	SM-b	Synoviocyte Medium-basal	500 ml
SC-4701-b-prf	SM-b-prf	Synoviocyte Medium-basal-phenol red free	500 ml
SC-4701-prf	SM-prf	Synoviocyte Medium-phenol red free	500 ml
SC-4704	HS cDNA	Human Synoviocyte cDNA	20 reactions
SC-4705	HS tRNA	Human Synoviocyte Total RNA	10 µg
SC-4706	HS Lysate	Human Synoviocyte Lysate	200 µg
SC-4707	HS miRNA	Human Synoviocyte MicroRNA	1 µg
SC-4709	HS gDNA	Human Synoviocyte Genomic DNA	5 µg
SC-4752	SGS	Synoviocyte Growth Supplement	5 ml
SC-4800	HNPC	Human Nucleus Pulposus Cells	5 × 10 ⁵ cells/vial
SC-4801	NPCM	Nucleus Pulposus Cell Medium	500 ml
SC-4801-b	NPCM-b	Nucleus Pulposus Cell Medium-basal	500 ml
SC-4801-b-prf	NPCM-b-prf	Nucleus Pulposus Cell Medium-basal-phenol red free	500 ml
SC-4801-prf	NPCM-prf	Nucleus Pulposus Cell Medium-phenol red free	500 ml
SC-4804	HNPC cDNA	Human Nucleus Pulposus Cell cDNA	20 reactions
SC-4805	HNPC tRNA	Human Nucleus Pulposus Cell Total RNA	10 µg
SC-4806	HNPC Lysate	Human Nucleus Pulposus Cell Lysate	200 µg
SC-4807	HNPC miRNA	Human Nucleus Pulposus Cell MicroRNA	1 µg
SC-4809	HNPC gDNA	Human Nucleus Pulposus Cell Genomic DNA	5 µg
SC-4810	HAFC	Human Annulus Fibrosus Cells	5 × 10 ⁵ cells/vial
SC-4814	HAFC cDNA	Human Annulus Fibrosus Cell cDNA	20 reactions
SC-4815	HAFC tRNA	Human Annulus Fibrosus Cell Total RNA	10 µg
SC-4816	HAFC Lysate	Human Annulus Fibrosus Cell Lysate	200 µg
SC-4817	HAFC miRNA	Human Annulus Fibrosus Cell MicroRNA	1 µg
SC-4819	HAFC gDNA	Human Annulus Fibrosus Cell Genomic DNA	5 µg
SC-4852	NPCGS	Nucleus Pulposus Cell Growth Supplement	5 ml

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
Human hepatic system			
SC-5000	HHSEC	Human Hepatic Sinusoidal Endothelial Cells	5 × 10 ⁵ cells/vial
SC-5004	HHSEC cDNA	Human Hepatic Sinusoidal Endothelial Cell cDNA	20 reactions
SC-5005	HHSEC tRNA	Human Hepatic Sinusoidal Endothelial Cell Total RNA	10 µg
SC-5006	HHSEC Lysate	Human Hepatic Sinusoidal Endothelial Cell Lysate	200 µg
SC-5007	HHSEC miRNA	Human Hepatic Sinusoidal Endothelial Cell MicroRNA	1 µg
SC-5009	HHSEC gDNA	Human Hepatic Sinusoidal Endothelial Cell Genomic DNA	5 µg
SC-5050	HLMC	Human Liver Mononuclear Cells	10 million cells in 1 ml volume
SC-5100	HIBEpIC	Human Intrahepatic Biliary Epithelial Cells	5 × 10 ⁵ cells/vial
SC-5104	HIBEpIC cDNA	Human Intrahepatic Biliary Epithelial Cell cDNA	20 reactions
SC-5105	HIBEpIC tRNA	Human Intrahepatic Biliary Epithelial Cell Total RNA	10 µg
SC-5106	HIBEpIC Lysate	Human Intrahepatic Biliary Epithelial Cell Lysate	200 µg
SC-5107	HIBEpIC miRNA	Human Intrahepatic Biliary Epithelial Cell MicroRNA	1 µg
SC-5109	HIBEpIC gDNA	Human Intrahepatic Biliary Epithelial Cell Genomic DNA	5 µg
SC-5200	HH	Human Hepatocytes	1 × 10 ⁶ cells/vial
SC-5200-2	HH	Human Hepatocytes	2 × 10 ⁶ cells/vial
SC-5201	HM	Hepatocyte Medium	500 ml
SC-5201-b	HM-b	Hepatocyte Medium-basal	500 ml
SC-5201-b-prf	HM-b-prf	Hepatocyte Medium-basal-phenol red free	500 ml
SC-5201-prf	HM-prf	Hepatocyte Medium-phenol red free	500 ml
SC-5204	HH cDNA	Human Hepatocyte cDNA	20 reactions
SC-5205	HH tRNA	Human Hepatocyte Total RNA	10 µg
SC-5206	HH Lysate	Human Hepatocyte Lysate	200 µg
SC-5207	HH miRNA	Human Hepatocyte MicroRNA	1 µg
SC-5209	HH gDNA	Human Hepatocyte Genomic DNA	5 µg
SC-5252	HGS	Hepatocyte Growth Supplement	5 ml
SC-5300	HHStEC	Human Hepatic Stellate Cells	5 × 10 ⁵ cells/vial
SC-5301	SteCM	Stellate Cell Medium	500 ml
SC-5301-b	SteCM-b	Stellate Cell Medium-basal	500 ml
SC-5301-b-prf	SteCM-b-prf	Stellate Cell Medium-basal-phenol red free	500 ml
SC-5301-prf	SteCM-prf	Stellate Cell Medium-phenol red free	500 ml
SC-5304	HHStEC cDNA	Human Hepatic Stellate Cell cDNA	20 reactions
SC-5305	HHStEC tRNA	Human Hepatic Stellate Cell Total RNA	10 µg
SC-5306	HHStEC Lysate	Human Hepatic Stellate Cell Lysate	200 µg
SC-5307	HHStEC miRNA	Human Hepatic Stellate Cell MicroRNA	1 µg
SC-5309	HHStEC gDNA	Human Hepatic Stellate Cell Genomic DNA	5 µg
SC-5340	HHMa	Human Hepatic Macrophages	1 × 10 ⁶ cells/vial
SC-5352	SteCGS	Stellate Cell Growth Supplement	5 ml
SC-5430	HGBF	Human Gallbladder Fibroblasts	5 × 10 ⁵ cells/vial
SC-5434	HGBF cDNA	Human Gallbladder Fibroblast cDNA	20 reactions
SC-5435	HGBF tRNA	Human Gallbladder Fibroblast Total RNA	10 µg
SC-5436	HGBF Lysate	Human Gallbladder Fibroblast Lysate	200 µg
SC-5437	HGBF miRNA	Human Gallbladder Fibroblast MicroRNA	1 µg
SC-5439	HGBF gDNA	Human Gallbladder Fibroblasts Genomic DNA	5 µg
SC-5500	HSEC	Human Splenic Endothelial Cells	5 × 10 ⁵ cells/vial
SC-5501	HemGM	HematoGro Medium	500 ml
SC-5504	HSEC cDNA	Human Splenic Endothelial Cell cDNA	20 reactions
SC-5505	HSEC tRNA	Human Splenic Endothelial Cell Total RNA	10 µg

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-5506	HSEC Lysate	Human Splenic Endothelial Cell Lysate	200 µg
SC-5507	HSEC miRNA	Human Splenic Endothelial Cell MicroRNA	1 µg
SC-5509	HSEC gDNA	Human Splenic Endothelial Cell Genomic DNA	5 µg
SC-5521	HemGM-ACF	HematoGro Medium—Animal Component Free	500 ml
SC-5530	HSF	Human Splenic Fibroblasts	5 × 10 ⁵ cells/vial
SC-5534	HSF cDNA	Human Splenic Fibroblast cDNA	20 reactions
SC-5535	HSF tRNA	Human Splenic Fibroblast Total RNA	10 µg
SC-5536	HSF Lysate	Human Splenic Fibroblast Lysate	200 µg
SC-5537	HSF mRNA	Human Splenic Fibroblast MicroRNA	1 µg
SC-5539	HSF gDNA	Human Splenic Fibroblast Genomic DNA	5 µg
SC-5801	STEMium	STEMium® Human Pluripotent Stem Cell Growth Medium	500 ml
SC-5801-b	STEMium-b	STEMium® Human Pluripotent Stem Cell Growth Medium-basal	500 ml
SC-5805	HIPSC-HDF tRNA	HDF-derived Human Induced Pluripotent Stem Cell Total RNA	10 µg
SC-5807	HIPSC-HDFmiRNA	HDF-derived Human Induced Pluripotent Stem Cell (HIPSC) MicroRNA	1 µg
SC-5811	STEMium-XF	STEMium® Human Pluripotent Stem Cell Growth Medium-xeno free	500 ml
SC-5817	HIPSC-BJ miRNA	BJ-derived Human Induced Pluripotent Stem Cell (HIPSC) MicroRNA	1 µg
SC-5821	STEMium-ACF	STEMium® Human Pluripotent Stem Cell Growth Medium-animal component free	500 ml
SC-5825	HESC-H9 tRNA	Human Embryonic Stem Cell H9 Total RNA	10 µg
SC-5852	StemGS	StemGS® Human Embryonic Stem Cell Growth Supplement 50X	10 ml
SC-5862	StemGS-XF	Xenofree Human Pluripotent Stem Cell Growth Supplement 50X	10 ml
SC-5872	StemGS-ACF	Human Pluripotent Stem Cell Growth Supplement-Animal Component Free 50X	10 ml
SC-5881	MEF-cm	Mouse Embryonic Fibroblast-Conditioned Medium	100 ml
SC-5891	bFGF-std MEF-cm	bFGF-Stimulated Mouse Embryonic Fibroblast Conditioned Medium	100 ml
SC-5901	PSCCDK	Human Pluripotent Stem Cell Cardiomyocyte Differentiation Kit	50 ml
SC-5901-10	PSCCDK	Human Pluripotent Stem Cell Cardiomyocyte Differentiation Kit	10 ml
SC-5901D	CGM	Cardiomyocyte Growth Medium	250 ml
SC-5911	CSM	Cardiomyocyte Selective Medium	500 ml
SC-5911-b	CSM	Cardiomyocyte Selective Medium-basal	500 ml
SC-5931	PSCNIM	HPSC Neural Induction Medium	500 ml
SC-5931-100	PSCNIM	HPSC Neural Induction Medium	100 ml
SC-5962	CSGS	Cardiomyocyte Selective Medium Growth Supplement	10 ml
Human cardiovascular system			
SC-6000	HCMEC	Human Cardiac Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-6004	HCMEC cDNA	Human Cardiac Microvascular Endothelial Cell cDNA	20 reactions
SC-6005	HCMEC tRNA	Human Cardiac Microvascular Endothelial Cell Total RNA	10 µg
SC-6006	HCMEC Lysate	Human Cardiac Microvascular Endothelial Cell Lysate	200 µg
SC-6007	HCMEC miRNA	Human Cardiac Microvascular Endothelial Cell MicroRNA	1 µg
SC-6009	HCMEC gDNA	Human Cardiac Microvascular Endothelial Cell Genomic DNA	5 µg
SC-6020	HCAEC	Human Coronary Artery Endothelial Cells	5 × 10 ⁵ cells/vial
SC-6024	HCAEC cDNA	Human Coronary Artery Endothelial Cell cDNA	20 reactions
SC-6025	HCAEC tRNA	Human Coronary Artery Endothelial Cell Total RNA	10 µg
SC-6026	HCAEC Lysate	Human Coronary Artery Endothelial Cell Lysate	200 µg
SC-6027	HCAEC miRNA	Human Coronary Artery Endothelial Cell MicroRNA	1 µg
SC-6029	HCAEC gDNA	Human Coronary Artery Endothelial Cell Genomic DNA	5 µg
SC-6100	HAEC	Human Aortic Endothelial Cells	5 × 10 ⁵ cells/vial
SC-6101	CMM-sf	Cardiac Myocyte Medium-serum free	500 ml
SC-6101-b	CMM-sf-b	Cardiac Myocyte Medium-serum free-basal	500 ml
SC-6101-b-prf	CMM-sf-b-prf	Cardiac Myocyte Medium-serum free-basal-phenol red free	500 ml

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-6101-prf	CMM-sf-prf	Cardiac Myocyte Medium-serum free-phenol red free	500 ml
SC-6104	HAEC cDNA	Human Aortic Endothelial Cell cDNA	20 reactions
SC-6105	HAEC tRNA	Human Aortic Endothelial Cell Total RNA	10 µg
SC-6106	HAEC Lysate	Human Aortic Endothelial Cell Lysate	200 µg
SC-6107	HAEC miRNA	Human Aortic Endothelial Cell MicroRNA	1 µg
SC-6109	HAEC gDNA	Human Aortic Endothelial Cell Genomic DNA	5 µg
SC-6110	HASMC	Human Aortic Smooth Muscle Cells	5 × 10 ⁵ cells/vial
SC-6114	HASMC cDNA	Human Aortic Smooth Muscle Cell cDNA	20 reactions
SC-6115	HASMC tRNA	Human Aortic Smooth Muscle Cell Total RNA	10 µg
SC-6116	HASMC Lysate	Human Aortic Smooth Muscle Cell Lysate	200 µg
SC-6117	HASMC miRNA	Human Aortic Smooth Muscle Cell MicroRNA	1 µg
SC-6119	HASMC gDNA	Human Aortic Smooth Muscle Cell Genomic DNA	5 µg
SC-6120	HAAF	Human Aortic Adventitial Fibroblasts	5 × 10 ⁵ cells/vial
SC-6124	HAF cDNA	Human Aortic Fibroblast cDNA	20 reactions
SC-6125	HAF tRNA	Human Aortic Fibroblast Total RNA	10 µg
SC-6126	HAF Lysate	Human Aortic Fibroblast Lysate	200 µg
SC-6127	HAF miRNA	Human Aortic Fibroblast MicroRNA	1 µg
SC-6129	HAF gDNA	Human Aortic Fibroblast Genomic DNA	5 µg
SC-6152	CMGS-sf	Cardiac Myocyte Growth Supplement-serum free	5 ml
SC-6200	HCM	Human Cardiac Myocytes	1 × 10 ⁶ cells/vial
SC-6201	CMM	Cardiac Myocyte Medium	500 ml
SC-6201-b	CMM-b	Cardiac Myocyte Medium-basal	500 ml
SC-6201-b-prf	CMM-b-prf	Cardiac Myocyte Medium-basal-phenol red free	500 ml
SC-6201-prf	CMM-prf	Cardiac Myocyte Medium-phenol red free	500 ml
SC-6204	HCM cDNA	Human Cardiac Myocyte cDNA	20 reactions
SC-6205	HCM tRNA	Human Cardiac Myocyte Total RNA	10 µg
SC-6206	HCM Lysate	Human Cardiac Myocyte Lysate	200 µg
SC-6207	HCM miRNA	Human Cardiac Myocyte MicroRNA	1 µg
SC-6209	HCM gDNA	Human Cardiac Myocyte Genomic DNA	5 µg
SC-6210	HCM-a	Human Cardiac Myocytes-adult	1 × 10 ⁶ cells/vial
SC-6214	HCM-a cDNA	Human Cardiac Myocyte-adult cDNA	20 reactions
SC-6215	HCM-a tRNA	Human Cardiac Myocyte-adult Total RNA	10 µg
SC-6216	HCM-a Lysate	Human Cardiac Myocyte-adult Lysate	200 µg
SC-6217	HCM-a miRNA	Human Cardiac Myocyte-adult MicroRNA	1 µg
SC-6219	HCM-a gDNA	Human Cardiac Myocyte-adult Genomic DNA	5 µg
SC-6240	HPSC-CC	HPSC-derived Cardiomyocyte Cells	1.5 × 10 ⁶ cells/vial
SC-6252	CMGS	Cardiac Myocyte Growth Supplement	5 ml
SC-6300	HCF	Human Cardiac Fibroblasts	5 × 10 ⁵ cells/vial
SC-6304	HCF cDNA	Human Cardiac Fibroblast cDNA	20 reactions
SC-6305	HCF tRNA	Human Cardiac Fibroblast Total RNA	10 µg
SC-6306	HCF Lysate	Human Cardiac Fibroblast Lysate	200 µg
SC-6307	HCF miRNA	Human Cardiac Fibroblast MicroRNA	1 µg
SC-6309	HCF gDNA	Human Cardiac Fibroblast Genomic DNA	5 µg
SC-6310	HCF-av	Human Cardiac Fibroblasts-adult ventricular	5 × 10 ⁵ cells/vial
SC-6314	HCF-av cDNA	Human Cardiac Fibroblast-adult ventricular cDNA	20 reactions
SC-6315	HCF-av tRNA	Human Cardiac Fibroblast-adult ventricular Total RNA	10 µg
SC-6316	HCF-av Lysate	Human Cardiac Fibroblast-adult ventricular Lysate	200 µg
SC-6317	HCF-av miRNA	Human Cardiac Fibroblast-adult ventricular MicroRNA	1 µg

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-6319	HCF-av gDNA	Human Cardiac Fibroblast-adult ventricular Genomic DNA	5 µg
SC-6320	HCF-aa	Human Cardiac Fibroblasts-adult atrial	5 × 10 ⁵ cells/vial
SC-6324	HCF-aa cDNA	Human Cardiac Fibroblast-adult atrial cDNA	20 reactions
SC-6325	HCF-aa tRNA	Human Cardiac Fibroblast-adult atrial Total RNA	10 µg
SC-6326	HCF-aa Lysate	Human Cardiac Fibroblast-adult atrial Lysate	200 µg
SC-6327	HCF-aa miRNA	Human Cardiac Fibroblast-adult atrial MicroRNA	1 µg
SC-6329	HCF-aa gDNA	Human Cardiac Fibroblast-adult atrial Genomic DNA	5 µg
SC-6330	HCF-a	Human Cardiac Fibroblasts-adult	5 × 10 ⁵ cells/vial
SC-6334	HCF-a cDNA	Human Cardiac Fibroblast-adult cDNA	20 reactions
SC-6335	HCF-a tRNA	Human Cardiac Fibroblast-adult Total RNA	10 µg
SC-6336	HCF-a Lysate	Human Cardiac Fibroblast-adult Lysate	200 µg
SC-6337	HCF-a miRNA	Human Cardiac Fibroblast-adult MicroRNA	1 µg
SC-6339	HCF-a gDNA	Human Cardiac Fibroblasts-adult Genomic DNA	5 µg
SC-6340	HCF-fa	Human Cardiac Fibroblasts-fetal atrial	5 × 10 ⁵ cells/vial
SC-6430	HPcF	Human Pericardial Fibroblasts	5 × 10 ⁵ cells/vial
SC-6434	HPcF cDNA	Human Pericardial Fibroblast cDNA	20 reactions
SC-6435	HPcF tRNA	Human Pericardial Fibroblast Total RNA	10 µg
SC-6436	HPcF Lysate	Human Pericardial Fibroblast Lysate	200 µg
SC-6437	HPcF miRNA	Human Pericardial Fibroblast MicroRNA	1 µg
SC-6439	HPcF gDNA	Human Pericardial Fibroblast Genomic DNA	5 µg
Human ocular system			
SC-6510	HCEpiC	Human Corneal Epithelial Cells	5 × 10 ⁵ cells/vial
SC-6511	CEpiCM	Corneal Epithelial Cell Medium	500 ml
SC-6511-b	CEpiCM-b	Corneal Epithelial Cell Medium-basal	500 ml
SC-6511-b-prf	CEpiCM-b-prf	Corneal Epithelial Cell Medium-basal-phenol red free	500 ml
SC-6511-prf	CEpiCM-prf	Corneal Epithelial Cell Medium-phenol red free	500 ml
SC-6514	HCEpiC cDNA	Human Corneal Epithelial Cell cDNA	20 reactions
SC-6515	HCEpiC tRNA	Human Corneal Epithelial Cell Total RNA	10 µg
SC-6516	HCEpiC Lysate	Human Corneal Epithelial Cell Lysate	200 µg
SC-6517	HCEpiC miRNA	Human Corneal Epithelial Cell MicroRNA	1 µg
SC-6519	HCEpiC gDNA	Human Corneal Epithelial Cell Genomic DNA	5 µg
SC-6520	HK	Human Keratocytes	5 × 10 ⁵ cells/vial
SC-6524	HK cDNA	Human Keratocyte cDNA	20 reactions
SC-6525	HK tRNA	Human Keratocyte Total RNA	10 µg
SC-6526	HK Lysate	Human Keratocyte Lysate	200 µg
SC-6527	HK miRNA	Human Keratocyte MicroRNA	1 µg
SC-6529	HK gDNA	Human Keratocyte Genomic DNA	5 µg
SC-6534	HREC cDNA	Human Retinal Endothelial Cell cDNA	20 reactions
SC-6535	HREC tRNA	Human Retinal Endothelial Cell Total RNA	10 µg
SC-6536	HREC Lysate	Human Retinal Endothelial Cell Lysate	200 µg
SC-6537	HREC miRNA	Human Retinal Endothelial Cell MicroRNA	1 µg
SC-6539	HREC gDNA	Human Retinal Endothelial Cell Genomic DNA	5 µg
SC-6540	HRPEpiC	Human Retinal Pigment Epithelial Cells	5 × 10 ⁵ cells/vial
SC-6544	HRPEpiC cDNA	Human Retinal Pigment Epithelial Cell cDNA	20 reactions
SC-6545	HRPEpiC tRNA	Human Retinal Pigment Epithelial Cell Total RNA	10 µg
SC-6546	HRPEpiC Lysate	Human Retinal Pigment Epithelial Cell Lysate	200 µg
SC-6547	HRPEpiC miRNA	Human Retinal Pigment Epithelial Cell MicroRNA	1 µg
SC-6549	HRPEpiC gDNA	Human Retinal Pigment Epithelial Cell Genomic DNA	5 µg

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-6550	HLEpiC	Human Lens Epithelial Cells	5 × 10 ⁵ cells/vial
SC-6552	CEpiCGS	Corneal Epithelial Cell Growth Supplement	5 ml
SC-6554	HLEpiC cDNA	Human Lens Epithelial Cell cDNA	20 reactions
SC-6555	HLEpiC tRNA	Human Lens Epithelial Cell Total RNA	10 µg
SC-6556	HLEpiC Lysate	Human Lens Epithelial Cell Lysate	200 µg
SC-6557	HLEpiC miRNA	Human Lens Epithelial Cell MicroRNA	1 µg
SC-6559	HLEpiC gDNA	Human Lens Epithelial Cell Genomic DNA	5 µg
SC-6560	HIPEpiC	Human Iris Pigment Epithelial Cells	5 × 10 ⁵ cells/vial
SC-6564	HIPEpiC cDNA	Human Iris Pigment Epithelial Cell cDNA	20 reactions
SC-6565	HIPEpiC tRNA	Human Iris Pigment Epithelial Cell Total RNA	10 µg
SC-6566	HIPEpiC Lysate	Human Iris Pigment Epithelial Cell Lysate	200 µg
SC-6567	HIPEpiC miRNA	Human Iris Pigment Epithelial Cell MicroRNA	1 µg
SC-6569	HIPEpiC gDNA	Human Iris Pigment Epithelial Cell Genomic DNA	5 µg
SC-6570	HConF	Human Conjunctival Fibroblasts	5 × 10 ⁵ cells/vial
SC-6574	HConF cDNA	Human Conjunctival Fibroblast cDNA	20 reactions
SC-6575	HConF tRNA	Human Conjunctival Fibroblast Total RNA	10 µg
SC-6576	HConF Lysate	Human Conjunctival Fibroblast Lysate	200 µg
SC-6577	HConF miRNA	Human Conjunctival Fibroblast MicroRNA	1 µg
SC-6579	HConF gDNA	Human Conjunctival Fibroblast Genomic DNA	5 µg
SC-6580	HNPCEpiC	Human Non-Pigmented Ciliary Epithelial Cells	5 × 10 ⁵ cells/vial
SC-6584	HNPCEpiC cDNA	Human Non-Pigmented Ciliary Epithelial Cell cDNA	20 reactions
SC-6585	HNPCEpiC tRNA	Human Non-Pigmented Ciliary Epithelial Cell Total RNA	10 µg
SC-6586	HNPCEpiC Lysate	Human Non-Pigmented Ciliary Epithelial Cell Lysate	200 µg
SC-6587	HNPCEpiC miRNA	Human Non-Pigmented Ciliary Epithelial Cell MicroRNA	1 µg
SC-6589	HNPCEpiC gDNA	Human Non-Pigmented Ciliary Epithelial Cell Genomic DNA	5 µg
SC-6590	HTMC	Human Trabecular Meshwork Cells	5 × 10 ⁵ cells/vial
SC-6591	TMCM	Trabecular Meshwork Cell Medium	500 ml
SC-6591-b	TMCM-b	Trabecular Meshwork Cell Medium-basal	500 ml
SC-6591-b-prf	TMCM-b-prf	Trabecular Meshwork Cell Medium-basal-phenol red free	500 ml
SC-6591-prf	TMCM-prf	Trabecular Meshwork Cell Medium-phenol red free	500 ml
SC-6592	TMCGS	Trabecular Meshwork Cells Growth Supplement	5 ml
SC-6594	HTMC cDNA	Human Trabecular Meshwork Cell cDNA	20 reactions
SC-6595	HTMC tRNA	Human Trabecular Meshwork Cell Total RNA	10 µg
SC-6596	HTMC Lysate	Human Trabecular Meshwork Cell Lysate	200 µg
SC-6597	HTMC miRNA	Human Trabecular Meshwork Cell MicroRNA	1 µg
SC-6599	HTMC gDNA	Human Trabecular Meshwork Cell Genomic DNA	5 µg
SC-6620	HOCF	Human Ocular Choroid Fibroblasts	5 × 10 ⁵ cells/vial
SC-6624	HOCF cDNA	Human Ocular Choroid Fibroblast cDNA	20 reactions
SC-6625	HOCF tRNA	Human Ocular Choroid Fibroblast Total RNA	10 µg
SC-6626	HOCF Lysate	Human Ocular Choroid Fibroblast Lysate	200 µg
SC-6627	HOCF miRNA	Human Ocular Choroid Fibroblast MicroRNA	1 µg
SC-6629	HOCF gDNA	Human Ocular Choroid Fibroblasts Genomic DNA	5 µg
SC-6630	HConEpiC	Human Conjunctival Epithelial Cells	5 × 10 ⁵ cells/vial
SC-6634	HConEC cDNA	Human Conjunctival Epithelial Cell cDNA	20 reactions
SC-6635	HConEC tRNA	Human Conjunctival Epithelial Cell Total RNA	10 µg
SC-6636	HConEC Lysate	Human Conjunctival Epithelial Cell Lysate	200 µg
SC-6637	HConEC miRNA	Human Conjunctival Epithelial Cell MicroRNA	1 µg
SC-6639	HConEC gDNA	Human Conjunctival Epithelial Cell Genomic DNA	5 µg

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
Human reproductive system			
SC-7000	HMMEC	Human Myometrial Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-7004	HMMEC cDNA	Human Myometrial Microvascular Endothelial Cell cDNA	20 reactions
SC-7005	HMMEC tRNA	Human Myometrial Microvascular Endothelial Cell Total RNA	10 µg
SC-7006	HMMEC Lysate	Human Myometrial Microvascular Endothelial Cell Lysate	200 µg
SC-7007	HMMEC miRNA	Human Myometrial Microvascular Endothelial Cell MicroRNA	1 µg
SC-7009	HMMEC gDNA	Human Myometrial Microvascular Endothelial Cell Genomic DNA	5 µg
SC-7010	HEMEC	Human Endometrial Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-7014	HEMEC cDNA	Human Endometrial Microvascular Endothelial Cell cDNA	20 reactions
SC-7015	HEMEC tRNA	Human Endometrial Microvascular Endothelial Cell Total RNA	10 µg
SC-7016	HEMEC Lysate	Human Endometrial Microvascular Endothelial Cell Lysate	200 µg
SC-7017	HEMEC miRNA	Human Endometrial Microvascular Endothelial Cell MicroRNA	1 µg
SC-7019	HEMEC gDNA	Human Endometrial Microvascular Endothelial Cell Genomic DNA	5 µg
SC-7020	HMSMC	Human MyometrialSmooth Muscle Cells	5 × 10 ⁵ cells/vial
SC-7024	HMSMC cDNA	Human MyometrialSmooth Muscle Cell cDNA	20 reactions
SC-7025	HMSMC tRNA	Human MyometrialSmooth Muscle Cell Total RNA	10 µg
SC-7026	HMSMC Lysate	Human MyometrialSmooth Muscle Cell Lysate	200 µg
SC-7027	HMSMC miRNA	Human MyometrialSmooth Muscle Cell MicroRNA	1 µg
SC-7029	HMSMC gDNA	Human MyometrialSmooth Muscle Cell Genomic DNA	5 µg
SC-7040	HUF	Human Uterine Fibroblasts	5 × 10 ⁵ cells/vial
SC-7044	HUF cDNA	Human Uterine Fibroblast cDNA	20 reactions
SC-7045	HUF tRNA	Human Uterine Fibroblast Total RNA	10 µg
SC-7049	HUF gDNA	Human Uterine Fibroblast Genomic DNA	5 µg
SC-7050	HCerMEC	Human Cervical Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-7054	HCerMEC cDNA	Human Cervical Microvascular Endothelial Cell cDNA	20 reactions
SC-7055	HCerMEC tRNA	Human Cervical Microvascular Endothelial Cell Total RNA	10 µg
SC-7059	HCerMEC gDNA	Human Cervical Microvascular Endothelial Cell Genomic DNA	5 µg
SC-7060	HCerEpiC	Human Cervical Epithelial Cells	5 × 10 ⁵ cells/vial
SC-7061	CerEpiCM	Cervical Epithelial Cell Medium	500 ml
SC-7061-b	CerEpiCM-b	Cervical Epithelial Cell Medium-basal	500 ml
SC-7061-b-prf	CerEpiCM-b-prf	Cervical Epithelial Cell Medium-basal-phenol red free	500 ml
SC-7061-prf	CerEpiCM-prf	Cervical Epithelial Cell Medium-phenol red free	500 ml
SC-7062	CerEpiCGS	Cervical Epithelial Cell Growth Supplement	5 ml
SC-7100	HPVEC	Human Placental Vascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-7104	HPVEC cDNA	Human Placental Vascular Endothelial Cell cDNA	20 reactions
SC-7105	HPVEC tRNA	Human Placental Vascular Endothelial Cell Total RNA	10 µg
SC-7106	HPVEC Lysate	Human Placental Vascular Endothelial Cell Lysate	200 µg
SC-7107	HPVEC miRNA	Human Placental Vascular Endothelial Cell MicroRNA	1 µg
SC-7109	HPVEC gDNA	Human Placental Vascular Endothelial Cell Genomic DNA	5 µg
SC-7110	HAEpiC	Human Amniotic Epithelial Cells	5 × 10 ⁵ cells/vial
SC-7114	HAmEpiC cDNA	Human Amniotic Epithelial Cell cDNA	20 reactions
SC-7115	HAmEpiC tRNA	Human Amniotic Epithelial Cell Total RNA	10 µg
SC-7116	HAmEpiC Lysate	Human Amniotic Epithelial Cell Lysate	200 µg
SC-7117	HAmEpiC miRNA	Human Amniotic Epithelial Cell MicroRNA	1 µg
SC-7119	HAmEpiC gDNA	Human Amniotic Epithelial Cell Genomic DNA	5 µg
SC-7120	HVT	Human Villous Trophoblasts	1 × 10 ⁶ cells/vial
SC-7121	TM	Trophoblast Medium	500 ml
SC-7121-b	TM-b	Trophoblast Medium-basal	500 ml

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-7125	HVT tRNA	Human Villous Trophoblast Total RNA	10 µg
SC-7126	HVT Lysate	Human Villous Trophoblast Lysate	200 µg
SC-7127	HVT miRNA	Human Villous Trophoblast MicroRNA	1 µg
SC-7129	HVT gDNA	Human Villous Trophoblast Genomic DNA	5 µg
SC-7130	HVMF	Human Villous Mesenchymal Fibroblasts	5 × 10 ⁵ cells/vial
SC-7134	HVMF cDNA	Human Villous Mesenchymal Fibroblast cDNA	20 reactions
SC-7135	HVMF tRNA	Human Villous Mesenchymal Fibroblast Total RNA	10 µg
SC-7136	HVMF Lysate	Human Villous Mesenchymal Fibroblast Lysate	200 µg
SC-7137	HVMF miRNA	Human Villous Mesenchymal Fibroblast MicroRNA	1 µg
SC-7139	HVMF gDNA	Human Villous Mesenchymal Fibroblast Genomic DNA	5 µg
SC-7140	HAMSC	Human Amniotic Mesenchymal Stromal Cells	5 × 10 ⁵ cells/vial
SC-7144	HAMSC cDNA	Human Amniotic Mesenchymal Stromal Cell cDNA	20 reactions
SC-7145	HAMSC tRNA	Human Amniotic Mesenchymal Stromal Cell Total RNA	10 µg
SC-7146	HAMSC Lysate	Human Amniotic Mesenchymal Stromal Cell Lysate	200 µg
SC-7147	HAMSC miRNA	Human Amniotic Mesenchymal Stromal Cell MicroRNA	1 µg
SC-7149	HAMSC gDNA	Human Amniotic Mesenchymal Stromal Cell Genomic DNA	5 µg
SC-7150	HCMSC	Human Chorionic Mesenchymal Stromal Cells	5 × 10 ⁵ cells/vial
SC-7152	TGS	Trophoblast Growth Supplement	5 ml
SC-7154	HCMSC cDNA	Human Chorionic Mesenchymal Stromal Cell cDNA	20 reactions
SC-7155	HCMSC tRNA	Human Chorionic Mesenchymal Stromal Cell Total RNA	10 µg
SC-7156	HCMSC Lysate	Human Chorionic Mesenchymal Stromal Cell Lysate	200 µg
SC-7157	HCMSC miRNA	Human Chorionic Mesenchymal Stromal Cell MicroRNA	1 µg
SC-7159	HCMSC gDNA	Human Chorionic Mesenchymal Stromal Cell Genomic DNA	5 µg
SC-7200	HAMEC	Human Adipose Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-7201	AdM	Adipocyte Medium	500 ml
SC-7201-b	AdM-b	Adipocyte Medium-basal	500 ml
SC-7201-b-prf	AdM-b-prf	Adipocyte Medium-basal-phenol red free	500 ml
SC-7201-prf	AdM-prf	Adipocyte Medium-phenol red free	500 ml
SC-7204	HAMEC cDNA	Human Adipose Microvascular Endothelial Cell cDNA	20 reactions
SC-7205	HAMEC tRNA	Human Adipose Microvascular Endothelial Cell Total RNA	10 µg
SC-7206	HAMEC Lysate	Human Adipose Microvascular Endothelial Cell Lysate	200 µg
SC-7207	HAMEC miRNA	Human Adipose Microvascular Endothelial Cell MicroRNA	1 µg
SC-7209	HAMEC gDNA	Human Adipose Microvascular Endothelial Cell Genomic DNA	5 µg
SC-7210	HPA-v	Human Preadipocytes-visceral	1 × 10 ⁶ cells/vial
SC-7211	PAM	Preadipocyte Medium	500 ml
SC-7211-b	PAM-b	Preadipocyte Medium-basal	500 ml
SC-7211-b-prf	PAM-b-prf	Preadipocyte Medium-basal-phenol red free	500 ml
SC-7211-prf	PAM-prf	Preadipocyte Medium-phenol red free	500 ml
SC-7214	HPA-v cDNA	Human Preadipocyte-visceral cDNA	20 reactions
SC-7215	HPA-v tRNA	Human Preadipocyte-visceral Total RNA	10 µg
SC-7216	HPA-v Lysate	Human Preadipocyte-visceral Lysate	200 µg
SC-7217	HPA-v miRNA	Human Preadipocyte-visceral MicroRNA	1 µg
SC-7219	HPA-v gDNA	Human Preadipocyte-visceral Genomic DNA	5 µg
SC-7220	HPA-s	Human Preadipocytes-subcutaneous	1 × 10 ⁶ cells/vial
SC-7221	PADM	Preadipocyte Differentiation Medium	500 ml
SC-7221-b	PADM-b	Preadipocyte Differentiation Medium-basal	500 ml
SC-7221-b-prf	PADM-b-prf	Preadipocyte Differentiation Medium-basal-phenol red free	500 ml
SC-7221-prf	PADM-prf	Preadipocyte Differentiation Medium-phenol red free	500 ml

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-7224	HPA-s cDNA	Human Preadipocyte-subcutaneous cDNA	20 reactions
SC-7225	HPA-s tRNA	Human Preadipocyte-subcutaneous Total RNA	10 µg
SC-7226	HPA-s Lysate	Human Preadipocyte-subcutaneous Lysate	200 µg
SC-7227	HPA-s miRNA	Human Preadipocyte-subcutaneous MicroRNA	1 µg
SC-7229	HPA-s gDNA	Human Preadipocyte-subcutaneous Genomic DNA	5 µg
SC-7232	PAdDS	Preadipocyte Differentiation Supplement	5 ml
SC-7252	PAGS	Preadipocyte Growth Supplement	5 ml
SC-7262	AdGS	Adipocyte Growth Supplement	5 ml
SC-7300	HOMEC	Human Ovarian Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-7304	HOMEC cDNA	Human Ovarian Microvascular Endothelial Cell cDNA	20 reactions
SC-7305	HOMEC tRNA	Human Ovarian Microvascular Endothelial Cell Total RNA	10 µg
SC-7306	HOMEC Lysate	Human Ovarian Microvascular Endothelial Cell Lysate	200 µg
SC-7307	HOMEC miRNA	Human Ovarian Microvascular Endothelial Cell MicroRNA	1 µg
SC-7309	HOMEC gDNA	Human Ovarian Microvascular Endothelial Cell Genomic DNA	5 µg
SC-7310	HOSEpiC	Human Ovarian Surface Epithelial Cells	5 × 10 ⁵ cells/vial
SC-7311	OEpICM	Ovarian Epithelial Cell Medium	500 ml
SC-7311-b	OEpICM-b	Ovarian Epithelial Cell Medium-basal	500 ml
SC-7311-b-prf	OEpICM-b-prf	Ovarian Epithelial Cell Medium-basal-phenol red free	500 ml
SC-7311-prf	OEpICM-prf	Ovarian Epithelial Cell Medium-phenol red free	500 ml
SC-7314	HOSEpiC cDNA	Human Ovarian Surface Epithelial Cell cDNA	20 reactions
SC-7315	HOSEpiC tRNA	Human Ovarian Surface Epithelial Cell Total RNA	10 µg
SC-7316	HOSEpiC Lysate	Human Ovarian Surface Epithelial Cell Lysate	200 µg
SC-7317	HOSEpiC miRNA	Human Ovarian Surface Epithelial Cell MicroRNA	1 µg
SC-7319	HOSEpiC gDNA	Human Ovarian Surface Epithelial Cell Genomic DNA	5 µg
SC-7330	HOF	Human Ovarian Fibroblasts	5 × 10 ⁵ cells/vial
SC-7334	HOF cDNA	Human Ovarian Fibroblast cDNA	20 reactions
SC-7335	HOF tRNA	Human Ovarian Fibroblast Total RNA	10 µg
SC-7336	HOF Lysate	Human Ovarian Fibroblast Lysate	200 µg
SC-7337	HOF miRNA	Human Ovarian Fibroblast MicroRNA	1 µg
SC-7339	HOF gDNA	Human Ovarian Fibroblast Genomic DNA	5 µg
SC-7352	OEpICGS	Ovarian Epithelial Cell Growth Supplement	5 ml
SC-7500	HMSC-bm	Human Bone Marrow-derived Mesenchymal Stem Cells	5 × 10 ⁵ cells/vial
SC-7501	MSCM	Mesenchymal Stem Cell Medium	500 ml
SC-7501-b	MSCM-b	Mesenchymal Stem Cell Medium-basal	500 ml
SC-7501-b-prf	MSCM-b-prf	Mesenchymal Stem Cell Medium-basal-phenol red free	500 ml
SC-7501-prf	MSCM-prf	Mesenchymal Stem Cell Medium-phenol red free	500 ml
SC-7504	HMSC-bm cDNA	Human Mesenchymal Stem Cell-bone marrow cDNA	20 reactions
SC-7505	HMSC-bm tRNA	Human Mesenchymal Stem Cell-bone marrow Total RNA	10 µg
SC-7506	HMSC-bm Lysate	Human Mesenchymal Stem Cell-bone marrow Lysate	200 µg
SC-7507	HMSC-bm miRNA	Human Mesenchymal Stem Cell-bone marrow MicroRNA	1 µg
SC-7509	HMSC-bm gDNA	Human Mesenchymal Stem Cell-bone marrow Genomic DNA	5 µg
SC-7510	HMSC-ad	Human Adipose-derived Mesenchymal Stem Cells	5 × 10 ⁵ cells/vial
SC-7511	MSCM-sf	Mesenchymal Stem Cell Medium-serum free	500 ml
SC-7511-b	MSCM-sf-b	Mesenchymal Stem Cell Medium-serum free-basal	500 ml
SC-7511-b-prf	MSCM-sf-b-prf	Mesenchymal Stem Cell Medium-serum free-basal-phenol red free	500 ml
SC-7511-prf	MSCM-sf-prf	Mesenchymal Stem Cell Medium-serum free-phenol red free	500 ml
SC-7514	HMSC-ad cDNA	Human Mesenchymal Stem Cell-adipose cDNA	20 reactions
SC-7515	HMSC-ad tRNA	Human Mesenchymal Stem Cell-adipose Total RNA	10 µg

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-7516	HMSC-ad Lysate	Human Mesenchymal Stem Cell-adipose Lysate	200 µg
SC-7517	HMSC-ad miRNA	Human Mesenchymal Stem Cell-adipose MicroRNA	1 µg
SC-7519	HMSC-ad gDNA	Human Mesenchymal Stem Cell-adipose Genomic DNA	5 µg
SC-7520	HMSC-he	Human Liver-derived Mesenchymal Stem Cells	5 × 10 ⁵ cells/vial
SC-7521	MSCM-acf	Mesenchymal Stem Cell Medium-animal component free	500 ml
SC-7521-b	MSCM-acf-b	Mesenchymal Stem Cell Medium-animal component free-basal	500 ml
SC-7521-b-prf	MSCM-acf-b-prf	Mesenchymal Stem Cell Medium-animal component free-basal-phenol red free	500 ml
SC-7521-prf	MSCM-acf-prf	Mesenchymal Stem Cell Medium-animal component free-phenol red free	500 ml
SC-7524	HMSC-he cDNA	Human Mesenchymal Stem Cell-hepatic cDNA	20 reactions
SC-7525	HMSC-he tRNA	Human Mesenchymal Stem Cell-hepatic Total RNA	10 µg
SC-7526	HMSC-he Lysate	Human Mesenchymal Stem Cell-hepatic Lysate	200 µg
SC-7527	HMSC-he miRNA	Human Mesenchymal Stem Cell-hepatic MicroRNA	1 µg
SC-7529	HMSC-he gDNA	Human Mesenchymal Stem Cell-hepatic Genomic DNA	5 µg
SC-7530	HUMSC	Human Umbilical Mesenchymal Stem Cells	5 × 10 ⁵ cells/vial
SC-7531	MODM	Mesenchymal Stem Cell Osteogenic Differentiation Medium	500 ml
SC-7531-b	MODM-b	Mesenchymal Stem Cell Osteogenic Differentiation Medium-basal	500 ml
SC-7531-b-prf	MODM-b-prf	Mesenchymal Stem Cell Osteogenic Differentiation Medium-basal-phenol red free	500 ml
SC-7531-prf	MODM-prf	Mesenchymal Stem Cell Osteogenic Differentiation Medium-phenol red free	500 ml
SC-7532	MODS	Mesenchymal Stem Cell Osteogenic Differentiation Supplement	5 ml
SC-7534	HUMSC cDNA	Human Umbilical Mesenchymal Stem Cell cDNA	20 reactions
SC-7535	HUMSC tRNA	Human Umbilical Mesenchymal Stem Cell Total RNA	10 µg
SC-7536	HUMSC Lysate	Human Umbilical Mesenchymal Stem Cell Lysate	200 µg
SC-7537	HUMSC miRNA	Human Umbilical Mesenchymal Stem Cell MicroRNA	1 µg
SC-7539	HUMSC gDNA	Human Umbilical Mesenchymal Stem Cell Genomic DNA	5 µg
SC-7540	HPMSC	Human Pulmonary Mesenchymal Stem Cells	5 × 10 ⁵ cells/vial
SC-7541	MADM	Mesenchymal Stem Cell Adipogenic Differentiation Medium	500 ml
SC-7541-b	MADM-b	Mesenchymal Stem Cell Adipogenic Differentiation Medium-basal	500 ml
SC-7541-b-prf	MADM-b-prf	Mesenchymal Stem Cell Adipogenic Differentiation Medium-basal-phenol red free	500 ml
SC-7541-prf	MADM-prf	Mesenchymal Stem Cell Adipogenic Differentiation Medium-phenol red free	500 ml
SC-7542	MADS	Mesenchymal Stem Cell Adipogenic Differentiation supplement	5 ml
SC-7544	HPMSC cDNA	Human Pulmonary Mesenchymal Stem Cell cDNA	20 reactions
SC-7545	HPMSC tRNA	Human Pulmonary Mesenchymal Stem Cell Total RNA	10 µg
SC-7546	HPMSC Lysate	Human Pulmonary Mesenchymal Stem Cell Lysate	200 µg
SC-7547	HPMSC miRNA	Human Pulmonary Mesenchymal Stem Cell MicroRNA	1 µg
SC-7549	HPMSC gDNA	Human Pulmonary Mesenchymal Stem Cell Genomic DNA	5 µg
SC-7550	HVMSC	Human Vertebral Mesenchymal Stem Cells	5 × 10 ⁵ cells/vial
SC-7551	MCDM	Mesenchymal Stem Cell Chondrogenic Differentiation Medium	500 ml
SC-7551-b	MCDM-b	Mesenchymal Stem Cell Chondrogenic Differentiation Medium-basal	500 ml
SC-7551-b-prf	MCDM-b-prf	Mesenchymal Stem Cell Chondrogenic Differentiation Medium-basal-phenol red free	500 ml
SC-7551-prf	MCDM-prf	Mesenchymal Stem Cell Chondrogenic Differentiation Medium-phenol red free	500 ml
SC-7552	MSCGS	Mesenchymal Stem Cell Growth Supplement	5 ml
SC-7554	HVMSC cDNA	Human Vertebral Mesenchymal Stem Cell cDNA	20 reactions
SC-7555	HVMSC tRNA	Human Vertebral Mesenchymal Stem Cell Total RNA	10 µg
SC-7556	HVMSC Lysate	Human Vertebral Mesenchymal Stem Cell Lysate	200 µg
SC-7557	HVMSC miRNA	Human Vertebral Mesenchymal Stem Cell MicroRNA	1 µg
SC-7559	HVMSC gDNA	Human Vertebral Mesenchymal Stem Cell Genomic DNA	5 µg
SC-7562	MSCGS-sf	Mesenchymal Stem Cell Growth Supplement-serum free	5 ml
SC-7572	MSCGS-acf	Mesenchymal Stem Cell Growth Supplement-animal component free	5 ml

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-7582	MCDS	Mesenchymal Stem Cell Chondrogenic Differentiation Supplement	5 ml
SC-7600	HMVEC	Human Mammary Vascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-7604	HMVEC cDNA	Human Mammary Vascular Endothelial Cell cDNA	20 reactions
SC-7605	HMVEC tRNA	Human Mammary Vascular Endothelial Cell Total RNA	10 µg
SC-7606	HMVEC Lysate	Human Mammary Vascular Endothelial Cell Lysate	200 µg
SC-7607	HMVEC miRNA	Human Mammary Vascular Endothelial Cell MicroRNA	1 µg
SC-7609	HMVEC gDNA	Human Mammary Vascular Endothelial Cell Genomic DNA	5 µg
SC-7610	HMEpiC	Human Mammary Epithelial Cells	5 × 10 ⁵ cells/vial
SC-7611	MEpiCM	Mammary Epithelial Cell Medium	500 ml
SC-7611-b	MEpiCM-b	Mammary Epithelial Cell Medium-basal	500 ml
SC-7611-b-prf	MEpiCM-b-prf	Mammary Epithelial Cell Medium-basal-phenol red free	500 ml
SC-7611-prf	MEpiCM-prf	Mammary Epithelial Cell Medium-phenol red free	500 ml
SC-7614	HMEpiC cDNA	Human Mammary Epithelial Cell cDNA	20 reactions
SC-7615	HMEpiC tRNA	Human Mammary Epithelial Cell Total RNA	10 µg
SC-7616	HMEpiC Lysate	Human Mammary Epithelial Cell Lysate	200 µg
SC-7617	HMEpiC miRNA	Human Mammary Epithelial Cell MicroRNA	1 µg
SC-7619	HMEpiC gDNA	Human Mammary Epithelial Cell Genomic DNA	5 µg
SC-7630	HMF	Human Mammary Fibroblasts	5 × 10 ⁵ cells/vial
SC-7634	HMF cDNA	Human Mammary Fibroblast cDNA	20 reactions
SC-7635	HMF tRNA	Human Mammary Fibroblast Total RNA	10 µg
SC-7636	HMF Lysate	Human Mammary Fibroblast Lysate	200 µg
SC-7637	HMF miRNA	Human Mammary Fibroblast MicroRNA	1 µg
SC-7639	HMF gDNA	Human Mammary Fibroblast Genomic DNA	5 µg
SC-7652	MEpiCGS	Mammary Epithelial Cell Growth Supplement	5 ml
SC-8000	HUVEC	Human Umbilical Vein Endothelial Cells	5 × 10 ⁵ cells/vial
SC-8004	HUVEC cDNA	Human Umbilical Vein Endothelial Cell cDNA	20 reactions
SC-8005	HUVEC tRNA	Human Umbilical Vein Endothelial Cell Total RNA	10 µg
SC-8006	HUVEC Lysate	Human Umbilical Vein Endothelial Cell Lysate	200 µg
SC-8007	HUVEC miRNA	Human Umbilical Vein Endothelial Cell MicroRNA	1 µg
SC-8009	HUVEC gDNA	Human Umbilical Vein Endothelial Cell Genomic DNA	5 µg
SC-8010	HUAEC	Human Umbilical Artery Endothelial Cells	5 × 10 ⁵ cells/vial
SC-8014	HUAEC cDNA	Human Umbilical Artery Endothelial Cell cDNA	20 reactions
SC-8015	HUAEC tRNA	Human Umbilical Artery Endothelial Cell Total RNA	10 µg
SC-8016	HUAEC Lysate	Human Umbilical Artery Endothelial Cell Lysate	200 µg
SC-8017	HUAEC miRNA	Human Umbilical Artery Endothelial Cell MicroRNA	1 µg
SC-8019	HUAEC gDNA	Human Umbilical Artery Endothelial Cell Genomic DNA	5 µg
SC-8020	HUVSMC	Human Umbilical Vein Smooth Muscle Cells	5 × 10 ⁵ cells/vial
SC-8024	HUVSMC cDNA	Human Umbilical Vein Smooth Muscle Cell cDNA	20 reactions
SC-8025	HUVSMC tRNA	Human Umbilical Vein Smooth Muscle Cell Total RNA	10 µg
SC-8026	HUVSMC Lysate	Human Umbilical Vein Smooth Muscle Cell Lysate	200 µg
SC-8027	HUVSMC miRNA	Human Umbilical Vein Smooth Muscle Cell MicroRNA	1 µg
SC-8029	HUVSMC gDNA	Human Umbilical Vein Smooth Muscle Cell Genomic DNA	5 µg
SC-8030	HUASMC	Human Umbilical Artery Smooth Muscle Cells	5 × 10 ⁵ cells/vial
SC-8034	HUASMC cDNA	Human Umbilical Artery Smooth Muscle Cell cDNA	20 reactions
SC-8035	HUASMC tRNA	Human Umbilical Artery Smooth Muscle Cell Total RNA	10 µg
SC-8036	HUASMC Lysate	Human Umbilical Artery Smooth Muscle Cell Lysate	200 µg
SC-8037	HUASMC miRNA	Human Umbilical Artery Smooth Muscle Cell MicroRNA	1 µg
SC-8039	HUASMC gDNA	Human Umbilical Artery Smooth Muscle Cell Genomic DNA	5 µg

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
Miscellaneous mammalian cells			
SC-B1000	BBMEC	Bovine Brain Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-B2300	BDF	Bovine Dermal Fibroblasts	5 × 10 ⁵ cells/vial
SC-D7510	DMSC-ad	Dog Mesenchymal Stem Cells-adipose	5 × 10 ⁵ cells/vial
SC-H7510	HMSC-ad	Horse Mesenchymal Stem Cells-adipose	5 × 10 ⁵ cells/vial
SC-M1200	MBVP	Mouse Brain Vascular Pericytes from CD1	5 × 10 ⁵ cells/vial
SC-M1400	MMC	Mouse Meningeal Cells from CD1	5 × 10 ⁵ cells/vial
SC-M1400-57	MMC	Mouse Meningeal Cells from C57BL/6	5 × 10 ⁵ cells/vial
SC-M1510	MN-r	Mouse Neurons-raphé from CD1	1 × 10 ⁶ cells/vial
SC-M1510-57	MN-r	Mouse Neurons-raphé from C57BL/6	1 × 10 ⁶ cells/vial
SC-M1520	MN-c	Mouse Neurons-cortical from CD1	1 × 10 ⁶ cells/vial
SC-M1520-57	MN-c	Mouse Neurons-cortical from C57BL/6	1 × 10 ⁶ cells/vial
SC-M1530	MCGC	Mouse Cerebellar Granule Cells from CD1	1 × 10 ⁶ cells/vial
SC-M1530-57	MCGC	Mouse Cerebellar Granule Cells from C57BL/6	1 × 10 ⁶ cells/vial
SC-M1540	MN-h	Mouse Neurons-hippocampal from CD1	1 × 10 ⁶ cells/vial
SC-M1540-57	MN-h	Mouse Neurons-hippocampal from C57BL/6	1 × 10 ⁶ cells/vial
SC-M1550	MN-sn	Mouse Neurons-substantia nigra from CD1	1 × 10 ⁶ cells/vial
SC-M1560	MN-s	Mouse Neurons-striatal from CD1	1 × 10 ⁶ cells/vial
SC-M1570	MN-vsc	Mouse Neurons-ventral spinal cord from CD1	1 × 10 ⁶ cells/vial
SC-M1570-57	MN-vsc	Mouse Neurons-ventral spinal cord from C57BL/6	1 × 10 ⁶ cells/vial
SC-M1580	MN-dsc	Mouse Neurons-dorsal spinal cord from CD1	1 × 10 ⁶ cells/vial
SC-M1580-57	MN-dsc	Mouse Neurons-dorsal spinal cord from C57BL/6	1 × 10 ⁶ cells/vial
SC-M1590	MN-sc	Mouse Neurons-spinal cord from CD1	1 × 10 ⁶ cells/vial
SC-M1590-57	MN-sc	Mouse Neurons-spinal cord from C57BL/6	1 × 10 ⁶ cells/vial
SC-M1700	MSC	Mouse Schwann Cells from CD1	5 × 10 ⁵ cells/vial
SC-M1700-57	MSC	Mouse Schwann Cells from C57BL/6	5 × 10 ⁵ cells/vial
SC-M1710	MPNF	Mouse Perineurial Fibroblasts from CD1	5 × 10 ⁵ cells/vial
SC-M1710-57	MPNF	Mouse Perineurial Fibroblasts from C57BL/6	5 × 10 ⁵ cells/vial
SC-M1800	MA	Mouse Astrocytes from CD1	5 × 10 ⁵ cells/vial
SC-M1800-57	MA	Mouse Astrocytes from C57BL/6	5 × 10 ⁵ cells/vial
SC-MA-1810	MA-c	Mouse Astrocytes-cerebellar from CD1	5 × 10 ⁵ cells/vial
SC-M1810-57	MA-c	Mouse Astrocytes-cerebellar from C57BL/6	5 × 10 ⁵ cells/vial
SC-M1811-57	MACM-57	Mouse Astrocyte Conditioned Medium from C57BL/6	100 ml
SC-M1811-58	MACM-57-sf	Mouse Astrocyte Conditioned Medium from C57BL/6	100 ml
SC-M1820	MA-h	Mouse Astrocytes-hippocampal from CD1	5 × 10 ⁵ cells/vial
SC-M1820-57	MA-h	Mouse Astrocytes-hippocampal from C57BL/6	5 × 10 ⁵ cells/vial
SC-M1830	MA-sc	Mouse Astrocytes-spinal cord from CD1	5 × 10 ⁵ cells/vial
SC-M1830-57	MA-sc	Mouse Astrocytes-spinal cord from C57BL/6	5 × 10 ⁵ cells/vial
SC-M1840	MA-bs	Mouse Astrocytes-brain stem from CD1	5 × 10 ⁵ cells/vial
SC-M1850	MA-mb	Mouse Astrocytes-midbrain from CD1	5 × 10 ⁵ cells/vial
SC-M1900-57	MM	Mouse Microglia from C57BL/6	1 × 10 ⁶ cells/vial
SC-M1920	MMa-bm	Mouse Macrophages from CD1	1 × 10 ⁶ cells/vial
SC-M1920-10	MMa-bm	Mouse Macrophages from CD1	1 × 10 ⁷ cells/vial
SC-M1920-2	MMa-bm	Mouse Macrophages from CD1	2 × 10 ⁶ cells/vial
SC-M1920-5	MMa-bm	Mouse Macrophages from CD1	5 × 10 ⁶ cells/vial
SC-M1920-57	MMa-bm	Mouse Macrophages from C57BL/6	1 × 10 ⁶ cells/vial
SC-M1930	MBMMC	Mouse Bone Marrow Mononuclear Cells from CD1	10 million cells in 1 ml volume

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-M1930-25	MBMMC	Mouse Bone Marrow Mononuclear Cells from CD1	25 million cells in 1 ml volume
SC-M1930-57	MBMMC	Mouse Bone Marrow Mononuclear Cells from C57BL/6	10 million cells in 1 ml volume
SC-M2300-57	MDF	Mouse Dermal Fibroblasts from C57BL/6	5 × 10 ⁵ cells/vial
SC-M2530	MLF	Mouse Lymphatic Fibroblasts from CD1	5 × 10 ⁵ cells/vial
SC-M2530-57	MLF	Mouse Lymphatic Fibroblasts from C57BL/6	5 × 10 ⁵ cells/vial
SC-M2540	MLMC	Mouse Lymphatic Mononuclear Cells from CD1	10 million cells in 1 ml volume
SC-M2540-57	MLMC	Mouse Lymphatic Mononuclear Cells from C57BL/6	10 million cells in 1 ml volume
SC-M2670-57	MSGF	Mouse Salivary Gland Fibroblasts from C57BL/6	5 × 10 ⁵ cells/vial
SC-M3300-57	MPF	Mouse Pulmonary Fibroblasts from C57BL/6	5 × 10 ⁵ cells/vial
SC-M4100	MRPTEpIC	Mouse Renal Proximal Tubular Epithelial Cells from CD1	5 × 10 ⁵ cells/vial
SC-M4100-57	MRPTEpIC	Mouse Renal Proximal Tubular Epithelial Cells from C57BL/6	5 × 10 ⁵ cells/vial
SC-M4200	MRMC	Mouse Renal Mesangial Cells from CD1	5 × 10 ⁵ cells/vial
SC-M4200-57	MRMC	Mouse Renal Mesangial Cells from C57BL/6	5 × 10 ⁵ cells/vial
SC-M5300	MHSteC	Mouse Hepatic Stellate Cells from CD1	5 × 10 ⁵ cells/vial
SC-M5340	MHMa	Mouse Hepatic Macrophages from CD1	1 × 10 ⁶ cells/vial
SC-M5340-57	MHMa	Mouse Hepatic Macrophages from C57BL/6	1 × 10 ⁶ cells/vial
SC-M5540	MS	Mouse Splenocytes from CD1	10 million cells in 1 ml volume
SC-M5540-25	MS	Mouse Splenocytes from CD1	25 million cells in 1 ml volume
SC-M5540-57	MS	Mouse Splenocytes from C57BL/6	10 million cells in 1 ml volume
SC-M5550	MSMa	Mouse Splenic Macrophages from CD1	1 × 10 ⁶ cells/vial
SC-M5550-57	MSMa	Mouse Splenic Macrophages from C57BL/6	1 × 10 ⁶ cells/vial
SC-M6200	MCM	Mouse Cardiac Myocytes from CD1	1 × 10 ⁶ cells/vial
SC-M6200-57	MCM	Mouse Cardiac Myocytes from C57BL/6	1 × 10 ⁶ cells/vial
SC-M6300	MCF	Mouse Cardiac Fibroblasts from CD1	5 × 10 ⁵ cells/vial
SC-M6300-57	MCF	Mouse Cardiac Fibroblasts from C57BL/6	5 × 10 ⁵ cells/vial
SC-M7540	MEF	Mouse Embryonic Fibroblasts from CD1	1 × 10 ⁶ cells/vial
SC-M7540-2-mt	MEF-mt	Mouse Embryonic Fibroblasts-mitomycin C treated from CD1	2 × 10 ⁶ cells/vial
SC-M7540-2-mt-v10	MEF-mt	Mouse Embryonic Fibroblasts-mitomycin C treated from CD1	2 × 10 ⁶ cells/vial 10 vials/pk
SC-M7540-2-mt-v20	MEF-mt	Mouse Embryonic Fibroblasts-mitomycin C treated from CD1	2 × 10 ⁶ cells/vial 20 vials/pk
SC-M7540-2-mt-v5	MEF-mt	Mouse Embryonic Fibroblasts-mitomycin C treated from CD1	2 × 10 ⁶ cells/vial 5 vials/pk
SC-M7540-5	MEF	Mouse Embryonic Fibroblasts from CD1	5 × 10 ⁶ cells/vial
SC-M7540-57	MEF	Mouse Embryonic Fibroblasts from C57BL/6	5 × 10 ⁶ cells/vial
SC-M7540-5-mt	MEF-mt	Mouse Embryonic Fibroblasts-mitomycin C treated from CD1	5 × 10 ⁶ cells/vial
SC-M7540-mt	MEF-mt	Mouse Embryonic Fibroblasts-mitomycin C treated from CD1	1 × 10 ⁶ cells/vial
SC-M7570	MEF	Mouse Embryonic Fibroblasts from CF1	1 × 10 ⁶ cells/vial
SC-M7570-5	MEF	Mouse Embryonic Fibroblasts from CF1	5 × 10 ⁶ cells/vial
SC-M7570-5-mt	MEF-mt	Mouse Embryonic Fibroblasts-mitomycin C treated from CF1	5 × 10 ⁶ cells/vial
SC-M7570-mt	MEF-mt	Mouse Embryonic Fibroblasts-mitomycin C treated from CF1	1 × 10 ⁶ cells/vial
SC-P1870	PRA	Porcine Retinal Astrocytes	1 × 10 ⁶ cells/vial
SC-P6510	PCEpIC	Porcine Corneal Epithelial Cells	5 × 10 ⁵ cells/vial
SC-P6516	PCEpICL	Porcine Corneal Epithelial Cells Lysate	200 µg
SC-P6540	PRPEpIC	Porcine Retinal Pigment Epithelial Cells	5 × 10 ⁵ cells/vial

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-R1000	RBMEC	Rat Brain Microvascular Endothelial Cells	5 × 10 ⁵ cells/vial
SC-1021-b	ECM-r-b	Endothelial Cell Medium-rat-basal	500mL
SC-1021-b-prf	ECM-r-b-prf	Endothelial Cell Medium-rat-basal-phenol red free	500mL
SC-1021-prf	ECM-r-prf	Endothelial Cell Medium-rat-phenol red free	500mL
SC-R1200	RBVP	Rat Brain Vascular Pericytes	5 × 10 ⁵ cells/vial
SC-R1220	RPC	Rat Pituitary Cells	5 × 10 ⁵ cells/vial
SC-R1400	RMC	Rat Meningeal Cells	5 × 10 ⁵ cells/vial
SC-R1510	RN-r	Rat Neurons-raphé	1 × 10 ⁶ cells/vial
SC-R1520	RN-c	Rat Neurons-cortical	1 × 10 ⁶ cells/vial
SC-R1530	RCGC	Rat Cerebellar Granule Cells	1 × 10 ⁶ cells/vial
SC-R1540	RN-h	Rat Neurons-hippocampal	1 × 10 ⁶ cells/vial
SC-R1550	RN-sn	Rat Neurons-substantia nigra	1 × 10 ⁶ cells/vial
SC-R1560	RN-s	Rat Neurons-striatal	1 × 10 ⁶ cells/vial
SC-R1570	RN-vc	Rat Neurons-ventral spinal cord	1 × 10 ⁶ cells/vial
SC-R1580	RN-dsc	Rat Neurons-dorsal spinal cord	1 × 10 ⁶ cells/vial
SC-R1590	RN-sc	Rat Neurons-spinal cord	1 × 10 ⁶ cells/vial
SC-R1600	ROPC	Rat Oligodendrocyte Precursor Cells	1 × 10 ⁶ cells/vial
SC-R1700	RSC	Rat Schwann Cells	5 × 10 ⁵ cells/vial
SC-R1710	RPNF	Rat Perineural Fibroblasts	5 × 10 ⁵ cells/vial
SC-R1800	RA	Rat Astrocytes	5 × 10 ⁵ cells/vial
SC-R1810	RA-c	Rat Astrocytes-cerebellar	5 × 10 ⁵ cells/vial
SC-R1811	RACM	Rat Astrocyte Conditioned Medium	100 ml
SC-R1811-sf	RACM-sf	Rat Astrocyte Conditioned Medium-Serum Free	100 ml
SC-R1820	RA-h	Rat Astrocytes-hippocampal	5 × 10 ⁵ cells/vial
SC-R1860	RA-a	Rat Astrocytes-adult	5 × 10 ⁵ cells/vial
SC-R1870	RA-r	Rat Retinal Astrocytes	5 × 10 ⁵ cells/vial
SC-R1900	RM	Rat Microglia	1 × 10 ⁶ cells/vial
SC-R1920	RMa-bm	Rat Macrophages	1 × 10 ⁶ cells/vial
SC-R1920-10	RMa-bm	Rat Macrophages	10 × 10 ⁶ cells/vial
SC-R1920-2	RMa-bm	Rat Macrophages	2 × 10 ⁶ cells/vial
SC-R1920-5	RMa-bm	Rat Macrophages	5 × 10 ⁶ cells/vial
SC-R2100	REK	Rat Epidermal Keratinocytes	5 × 10 ⁵ cells/vial
SC-R2300	RDF	Rat Dermal Fibroblasts	5 × 10 ⁵ cells/vial
SC-R2320	RDF-a	Rat Dermal Fibroblasts-adult	5 × 10 ⁵ cells/vial
SC-R2530	RLF	Rat Lymphatic Fibroblasts	1 × 10 ⁶ cells/vial
SC-R2540	RLMC	Rat Lymphatic Mononuclear Cells	10 million cells in 1 ml volume
SC-R2670	RSGF	Rat Salivary Gland Fibroblasts	5 × 10 ⁵ cells/vial
SC-R3200	RPAEpiC	Rat Pulmonary Alveolar Epithelial Cells	1 × 10 ⁶ cells/vial
SC-R3300	RPF	Rat Pulmonary Fibroblasts	5 × 10 ⁵ cells/vial
SC-R4100	RRPTEpiC	Rat Renal Proximal Tubular Epithelial Cells	5 × 10 ⁵ cells/vial
SC-R4200	RRMC	Rat Renal Mesangial Cells	5 × 10 ⁵ cells/vial
SC-R5300	RHStC	Rat Hepatic Stellate Cells	5 × 10 ⁵ cells/vial
SC-R5300-a	RHStCA	Rat Hepatic Stellate Cells Adult	5 × 10 ⁵ cells/vial
SC-R5340	RHMa	Rat Hepatic Macrophage	1 × 10 ⁶ cells/vial
SC-R5540	RS	Rat Splenocytes	10 million cells in 1 ml volume
SC-R5550	RSMa	Rat Splenic Macrophages	1 × 10 ⁶ cells/vial
SC-R6110	RASMC	Rat Aortic Smooth Muscle Cells	5 × 10 ⁵ cells/vial

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-R6200	RCM	Rat Cardiac Myocytes	1 × 10 ⁶ cells/vial
SC-R6300	RCF	Rat Cardiac Fibroblasts	5 × 10 ⁵ cells/vial
SC-R6520	RK	Rat Keratocytes	5 × 10 ⁵ cells/vial
SC-R6550	RLEpiC	Rat Lens Epithelial Cells	5 × 10 ⁵ cells/vial
SC-R7500	RMSC-bm	Rat Mesenchymal Stem Cells-bone marrow	5 × 10 ⁵ cells/vial
SC-R7500-1	RMSC-bm	Rat Mesenchymal Stem Cells-bone marrow	1 × 10 ⁶ cells/vial
SC-R7540	REF	Rat Embryonic Fibroblasts	1 × 10 ⁶ cells/vial
Miscellaneous assays and kits			
SC-0223	Ared	Alizarin Red S Staining Kit	100 ml
SC-0833	HGL PCR	Human Germ Layer Detection Kit	50 reactions
SC-0843	Ored	Oil Red O Staining Kit	100 ml/bottle - 2 bottles
SC-0853	HSC PCR	Human Stem Cell Pluripotency Detection Kit	50 reactions
SC-8008	Col	Collagen I Cell Adhesion Assay	48 tests
SC-8018	Fibro	Fibronectin Cell Adhesion Assay	48 tests
SC-8028	MT10	MTT Cell Viability & Proliferation Assay	1000 tests in 96-well plate
SC-8038	WST	WST-1 Cell Viability & Proliferation Assay	1000 tests in 96-well plate
SC-8058	CSA	Cell Senescence Assay	50 tests/35 mm plate
SC-8068	GalC	Beta-Galactosidase Colorimetric Assay	50 tests/35 mm plate
SC-8078	LDH	LDH Cytotoxicity Assay	500 tests
SC-8088	TUNEL	Colorimetric TUNEL Apoptosis Assay	50 tests
SC-8098	NO	Colorimetric Nitric Oxide Assay	250 tests
SC-8108	pNPP	Phosphatase Assay	500 tests
SC-8118	MGPA	Malachite Green Phosphate Assay	2500 tests
SC-8128	CCA	Colorimetric Calcium Assay	250 tests
SC-8138	CSK	Live/Dead Staining Kit	1000 tests
SC-8148	GAPDH	Colorimetric GAPDH Assay	100 tests
SC-8158	IVTFA	In Vitro Tube Formation Assay	50 tests
SC-8168	TACA	Total Antioxidant Capacity Assay	100 tests
SC-8178	C3DGK	Collagen I-3D Gelling Kit	100 mg
SC-8188	CCCSCK	Collagen I-Cell Culture Surface Coating Kit	10 mg
SC-8198	SOD	Superoxide Dismutase Assay	100 tests
SC-8208	MYCO	Mycoplasma PCR Detection Kit	100 tests
SC-8218	CAT	Catalase Activity Assay	100 tests
SC-8228	CAS	Caspase-3 Assay	100 tests
SC-8238	GPx	Glutathione Peroxidase Assay	100 tests
SC-8248	BPF	Bovine Plasma Fibronectin	1 mg
SC-8258	ALP	Alkaline Phosphatase Activity Assay	500 tests
SC-8268	MITOISO	Mitochondria Isolation Kit	100 reactions
SC-8278	COX	Cytochrome C Oxidase Assay	100 tests
SC-8288	ALPr	Alkaline Phosphatase Staining Assay (Red)	500 tests
SC-8298	HMSC-A PCR	Human Mesenchymal Stem Cell Adipogenesis Detection Kit	50 reactions
SC-8308	LAC	L-Lactate Assay	100 tests
SC-8318	CS	Citrate Synthase Assay – 50 tests in cuvette or 250 tests in 96-well plate	
SC-8328	HMSC-C PCR	Human Mesenchymal Stem Cell Chondrogenesis Detection Kit	50 reactions
SC-8338	GLU	Glutamate Assay	100 tests
SC-8348	SafrininO	Safranin O Staining Kit	100 tests

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-8358	GDH	Glutamate Dehydrogenase Assay	100 tests
SC-8368	NAD	NAD/NADH Assay	100 tests
SC-8378	ABlue	Alcian Blue Staining Kit	100 tests
SC-8388	PYR	Pyruvate Assay	100 tests
SC-8398	G6P	Glucose-6-phosphate Assay	100 tests
SC-8408	HK	Hexokinase Assay	100 tests
SC-8418	GL	Glucose Assay	100 tests
SC-8428	G6PDH	Glucose-6-phosphate Dehydrogenase Assay	100 tests
SC-8438	US	Uric Acid Assay	100 tests
SC-8448	IR	Iron Assay	100 tests
SC-8458	XO	Xanthine Oxidase Assay	100 tests
SC-8468	GLY	Glycerol Assay	100 tests
SC-8478	ALT	Alanine Transaminase Assay	100 tests
SC-8498	TG	Triglyceride Assay	100 tests
SC-8508	GPDH	Glycerol-3-phosphate Dehydrogenase Assay	100 tests
SC-8518	TGA	Total Glutathione Assay	100 tests
SC-8528	AA	Ammonia Assay	100 tests
SC-8548	GST	Glutathione S-transferases Assay	100 tests
SC-8558	GSH/GSSG	GSH/GSSG Ratio Assay	100 tests
SC-8568	ADH	Alcohol Dehydrogenase Assay	100 tests
SC-8578	ALDH	Aldehyde Dehydrogenase Assay	100 tests
SC-8588	CHO	Choline Assay	100 tests
SC-8598	PLD	Phospholipase D Assay	100 tests
SC-8608	AST	Aspartate Transaminase Assay	100 tests
SC-8618	CK	Creatine Kinase Assay	100 tests
SC-8628	PK	Pyruvate Kinase Assay	100 tests
SC-8638	MDH	Malate Dehydrogenase Assay	100 tests
SC-8648	Mal	Malate Assay	100 tests
SC-8658	PDH	Pyruvate dehydrogenase Assay	100 tests
SC-8668	HAT	Colorimetric Histone Acetyltransferase Activity Assay	100 tests
SC-8678	ARed-Q	Alizarin Red S Staining Quantification Assay	100 tests
SC-8688	3D-CMK	3D Collagen I Matrix Kit	25 ml
SC-8698	3D-BETF	3D Basic Embedded Tubule Formation Kit	160 tests
SC-8708	3D-ETF	3D Embedded Tubule Formation Kit	N/A
SC-8718	3D-NF	3D Network Formation Assay Kit	N/A
SC-8728	3D-EPC	3D Endothelial-Pericyte Coculturing Kit	N/A
SC-8898	TRYP	Colorimetric Trypsin Activity Assay	100 tests in 96-well plate
SC-8908	RHTLQ	Relative Human Telomere Length Quantification qPCR Assay Kit	100 reactions
SC-8918	AHTLQ	Absolute Human Telomere Length Quantification qPCR Assay Kit	100 reactions
SC-8928	RHMQ	Telomerase Activity Quantification qPCR Assay Kit	100 reactions
SC-8938	AHTLQ	Relative Human Mitochondrial DNA Copy Number Quantification qPCR Assay Kit	100 reactions
SC-GK991	GQH-CED	GeneQuery™ Human cDNA Evaluation Kit, Deluxe, 100 reactions	1 kit

ScienCell products

OFFER NO.	DESCRIPTION	SIZE
Cytokines, chemokines, growth factors		
SC-1001-01	Recombinant Protein A	5 mg
SC-1001-01-1000	Recombinant Protein A	1 g
SC-1001-01-20	Recombinant Protein A	20 mg
SC-1002-01	Recombinant Protein G	5 mg
SC-1002-01-1000	Recombinant Protein G	1 g
SC-1002-01-20	Recombinant Protein G	20 mg
SC-1002-02	Recombinant Cys-Protein G	5 mg
SC-1002-02-1000	Recombinant Cys-Protein G	1 g
SC-1002-02-20	Recombinant Cys-Protein G	20 mg
SC-1003-01	Recombinant Protein A/G	5 mg
SC-1003-01-1000	Recombinant Protein A/G	1 g
SC-1003-01-20	Recombinant Protein A/G	20 mg
SC-1005-01	Recombinant Streptavidin	1 mg
SC-1005-01-1000	Recombinant Streptavidin	1 g
SC-1005-01-5	Recombinant Streptavidin	5 mg
SC-102-01	Recombinant Human Stem Cell Factor	2 µg
SC-102-01-10	Recombinant Human Stem Cell Factor	10 µg
SC-102-01-1000	Recombinant Human Stem Cell Factor	1 mg
SC-102-02	Recombinant Human Granulocyte Colony Stimulating Factor	2 µg
SC-102-02-10	Recombinant Human Granulocyte Colony Stimulating Factor	10 µg
SC-102-02-1000	Recombinant Human Granulocyte Colony Stimulating Factor	1 mg
SC-102-03	Recombinant Human Granulocyte Macrophage Colony Stimulating Factor	5 µg
SC-102-03-1000	Recombinant Human Granulocyte Macrophage Colony Stimulating Factor	1 mg
SC-102-03-20	Recombinant Human Granulocyte Macrophage Colony Stimulating Factor	20 µg
SC-102-09	Recombinant Human Macrophage Colony Stimulating Factor	2 µg
SC-102-09-100	Recombinant Human Macrophage Colony Stimulating Factor	10 µg
SC-102-09-1000	Recombinant Human Macrophage Colony Stimulating Factor	1 mg
SC-103-01	Recombinant Human Tumor Necrosis Factor-alpha	10 µg
SC-103-01-1000	Recombinant Human Tumor Necrosis Factor-alpha	1 mg
SC-103-01-50	Recombinant Human Tumor Necrosis Factor-alpha	50 µg
SC-103-01H	Recombinant Human Tumor Necrosis Factor-alpha, His	10 µg
SC-103-01H-1000	Recombinant Human Tumor Necrosis Factor-alpha, His	1 mg
SC-103-01H-50	Recombinant Human Tumor Necrosis Factor-alpha, His	50 µg
SC-103-01V	Recombinant Human Tumor Necrosis Factor-alpha Variant	10 µg
SC-103-01V-1000	Recombinant Human Tumor Necrosis Factor-alpha Variant	1 mg
SC-103-01V-50	Recombinant Human Tumor Necrosis Factor-alpha Variant	50 µg
SC-103-04	Recombinant Human B Cell Activating Factor	5 µg
SC-103-04-1000	Recombinant Human B Cell Activating Factor	1 mg
SC-103-04-20	Recombinant Human B Cell Activating Factor	20 µg
SC-103-08	Recombinant Human Oncostatin-M 227a.a.	2 µg
SC-103-08-10	Recombinant Human Oncostatin-M 227a.a.	10 µg
SC-103-08-1000	Recombinant Human Oncostatin-M 227a.a.	1 mg
SC-103-08T	Recombinant Human Oncostatin-M 209a.a.	2 µg
SC-103-08T-10	Recombinant Human Oncostatin-M 209a.a.	10 µg
SC-103-08T-1000	Recombinant Human Oncostatin-M 209a.a.	1 mg
SC-103-09	Recombinant Human Angiostatin K1-3	10 µg
SC-103-09-1000	Recombinant Human Angiostatin K1-3	1 mg

ScienCell products

OFFER NO.	DESCRIPTION	SIZE
SC-103-09-50	Recombinant Human Angiostatin K1-3	50 µg
SC-103-12	Recombinant Human Endostatin	20 µg
SC-103-12-100	Recombinant Human Endostatin	100 µg
SC-103-12-1000	Recombinant Human Endostatin	1 mg
SC-104-01	Recombinant Human Fibroblast Growth Factor-acidic	10 µg
SC-104-01-1000	Recombinant Human Fibroblast Growth Factor-acidic	1 mg
SC-104-01-50	Recombinant Human Fibroblast Growth Factor-acidic	50 µg
SC-104-02	Recombinant Human Fibroblast Growth Factor-basic	10 µg
SC-104-02-1000	Recombinant Human Fibroblast Growth Factor-basic	1 mg
SC-104-02-50	Recombinant Human Fibroblast Growth Factor-basic	50 µg
SC-104-07	Recombinant Human Keratinocyte Growth Factor-1	2 µg
SC-104-07-10	Recombinant Human Keratinocyte Growth Factor-1	10 µg
SC-104-07-1000	Recombinant Human Keratinocyte Growth Factor-1	1 mg
SC-104-09	Recombinant Human Fibroblast Growth Factor-9	5 µg
SC-104-09-1000	Recombinant Human Fibroblast Growth Factor-9	1 mg
SC-104-09-20	Recombinant Human Fibroblast Growth Factor-9	20 µg
SC-104-10	Recombinant Human Keratinocyte Growth Factor-2	5 µg
SC-104-10-1000	Recombinant Human Keratinocyte Growth Factor-2	1 mg
SC-104-10-25	Recombinant Human Keratinocyte Growth Factor-2	25 µg
SC-104-19	Recombinant Human Fibroblast Growth Factor-19	5 µg
SC-104-19-1000	Recombinant Human Fibroblast Growth Factor-19	1 mg
SC-104-19-25	Recombinant Human Fibroblast Growth Factor-19	25 µg
SC-104-21	Recombinant Human Fibroblast Growth Factor-21	5 µg
SC-104-21-1000	Recombinant Human Fibroblast Growth Factor-21	1 mg
SC-104-21-20	Recombinant Human Fibroblast Growth Factor-21	20 µg
SC-105-01	Recombinant Human IGF-I	20 µg
SC-105-01-100	Recombinant Human IGF-I	100 µg
SC-105-01-1000	Recombinant Human IGF-I	1 mg
SC-105-01B	Recombinant Human DES (1-3) IGF-1	20 µg
SC-105-01B-100	Recombinant Human DES (1-3) IGF-1	100 µg
SC-105-01B-1000	Recombinant Human DES (1-3) IGF-1	1 mg
SC-105-01B3	Recombinant Human IGF-BP3	5 µg
SC-105-01B3-1000	Recombinant Human IGF-BP3	1 mg
SC-105-01B3-25	Recombinant Human IGF-BP3	25 µg
SC-105-03	Recombinant Human Long R3 Insulin-like Growth Factor-1	20 µg
SC-105-03-1000	Recombinant Human Long R3 Insulin-like Growth Factor-1	1 mg
SC-105-03-500	Recombinant Human Long R3 Insulin-like Growth Factor-1	500 µg
SC-105-04	Recombinant Human Epidermal Growth Factor	100 µg
SC-105-04-1000	Recombinant Human Epidermal Growth Factor	1 mg
SC-105-04-500	Recombinant Human Epidermal Growth Factor	500 µg
SC-105-05	Recombinant Human VEGF165	2 µg
SC-105-05-10	Recombinant Human VEGF165	10 µg
SC-105-05-1000	Recombinant Human VEGF165	1 mg
SC-106-06	Recombinant Human Interferon-gamma	20 µg
SC-106-06-1	Recombinant Human Interferon-gamma	1 mg
SC-106-06-100	Recombinant Human Interferon-gamma	100 µg
SC-107-04	Recombinant Human Neurotrophin-4	2 µg
SC-107-04-10	Recombinant Human Neurotrophin-4	10 µg

ScienCell products

OFFER NO.	DESCRIPTION	SIZE
SC-107-08	Recombinant Human Ciliary Neurotrophic Factor	5 µg
SC-107-08-1000	Recombinant Human Ciliary Neurotrophic Factor	1 mg
SC-107-08-20	Recombinant Human Ciliary Neurotrophic Factor	20 µg
SC-107-10	Recombinant Human NRG-1 EGF-like domain	10 µg
SC-107-10-1000	Recombinant Human NRG-1 EGF-like domain	1 mg
SC-107-10-50	Recombinant Human NRG-1 EGF-like domain	50 µg
SC-107-11	Recombinant Human ErbB3 Fragment	5 µg
SC-107-11-1000	Recombinant Human ErbB3 Fragment	1 mg
SC-107-11-20	Recombinant Human ErbB3 Fragment	20 µg
SC-107-12	Recombinant Human Betacellulin	5 µg
SC-107-12-1000	Recombinant Human Betacellulin	1 mg
SC-107-12-20	Recombinant Human Betacellulin	20 µg
SC-108-02	Recombinant Human Bone Morphogenetic Protein-2	2 µg
SC-108-02-10	Recombinant Human Bone Morphogenetic Protein-2	10 µg
SC-108-02-1000	Recombinant Human Bone Morphogenetic Protein-2	1 mg
SC-108-04	Recombinant Human Bone Morphogenetic Protein-4	2 µg
SC-108-04-10	Recombinant Human Bone Morphogenetic Protein-4	10 µg
SC-108-04-1000	Recombinant Human Bone Morphogenetic Protein-4	1 mg
SC-108-07	Recombinant Human Bone Morphogenetic Protein-7, 2 ug	2 µg
SC-108-07-10	Recombinant Human Bone Morphogenetic Protein-7	10 µg
SC-108-07-1000	Recombinant Human Bone Morphogenetic Protein-7	1 mg
SC-108-08	Recombinant Human Osteoprotegerin/Fc Chimera	10 µg
SC-108-08-1000	Recombinant Human Osteoprotegerin/Fc Chimera	1 mg
SC-108-08-50	Recombinant Human Osteoprotegerin/Fc Chimera	50 µg
SC-108-09	Recombinant Human NOGGIN, 5 ug	5 µg
SC-108-09-1000	Recombinant Human NOGGIN	1 mg
SC-108-09-20	Recombinant Human NOGGIN	20 µg
SC-122-03	Recombinant Murine GM-CSF	5 µg
SC-122-03-1000	Recombinant Murine GM-CSF	1 mg
SC-122-03-20	Recombinant Murine GM-CSF	20 µg
SC-123-01	Recombinant Murine Tumor Necrosis-alpha	5 µg
SC-123-01-1000	Recombinant Murine Tumor Necrosis-alpha	1 mg
SC-123-01-20	Recombinant Murine Tumor Necrosis-alpha	20 µg
SC-123-07	Recombinant Murine Leukemia Inhibitory Factor	5 µg
SC-123-07-1000	Recombinant Murine Leukemia Inhibitory Factor	1 mg
SC-123-07-25	Recombinant Murine Leukemia Inhibitory Factor	25 µg
SC-124-02	Recombinant Murine FGF	10 µg
SC-124-02-1000	Recombinant Murine FGF	1 mg
SC-124-02-50	Recombinant Murine FGF	50 µg
SC-124-07	Recombinant Mouse Fibroblast Growth Factor-7	2 µg
SC-124-07-10	Recombinant Mouse Fibroblast Growth Factor-7	10 µg
SC-124-07-1000	Recombinant Mouse Fibroblast Growth Factor-7	1 mg
SC-125-04	Recombinant Murine EGF	100 µg
SC-125-04-1000	Recombinant Murine EGF	1 mg
SC-125-04-500	Recombinant Murine EGF	500 µg
SC-125-06	Recombinant Murine VEGF120	2 µg
SC-125-06-10	Recombinant Murine VEGF120	10 µg
SC-125-06-1000	Recombinant Murine VEGF120	1 mg

ScienCell products

OFFER NO.	DESCRIPTION	SIZE
SC-125-07	Recombinant Murine VEGF165	2 µg
SC-125-07-10	Recombinant Murine VEGF165	10 µg
SC-125-07-1000	Recombinant Murine VEGF165	1 mg
SC-128-09	Recombinant Murine NOGGIN	5 µg
SC-128-09-1000	Recombinant Murine NOGGIN	1 mg
SC-128-09-20	Recombinant Murine NOGGIN	20 µg
SC-142-03	Recombinant Rat Granulocyte Macrophage Colony Stimulating Factor	5 µg
SC-142-03-1000	Recombinant Rat Granulocyte Macrophage Colony Stimulating Factor	1 mg
SC-142-03-20	Recombinant Rat Granulocyte Macrophage Colony Stimulating Factor	20 µg
SC-143-01	Recombinant Rat Tumor Necrosis Factor-alpha	5 µg
SC-143-01-1000	Recombinant Rat Tumor Necrosis Factor-alpha	1 mg
SC-143-01-20	Recombinant Rat Tumor Necrosis Factor-alpha	20 µg
SC-144-02	Recombinant Rat Fibroblast Growth Factor-basic	10 µg
SC-144-02-1000	Recombinant Rat Fibroblast Growth Factor-basic	1 mg
SC-144-02-50	Recombinant Rat Fibroblast Growth Factor-basic	50 µg
SC-145-01	Recombinant Rat IGF-1	10 µg
SC-145-01-1000	Recombinant Rat IGF-1	1 mg
SC-145-01-50	Recombinant Rat IGF-1	50 µg
SC-145-04	Recombinant Rat Epidermal Growth Factor	20 µg
SC-145-04-100	Recombinant Rat Epidermal Growth Factor	100 µg
SC-145-04-1000	Recombinant Rat Epidermal Growth Factor	1 mg
SC-154-02	Recombinant Bovine Fibroblast Growth Factor-basic	10 µg
SC-154-02-1000	Recombinant Bovine Fibroblast Growth Factor-basic	1 mg
SC-154-02-50	Recombinant Bovine Fibroblast Growth Factor-basic	50 µg
SC-221-16	Recombinant Murine CXCL16	5 µg
SC-221-16-1000	Recombinant Murine CXCL16	1 mg
SC-221-16-25	Recombinant Murine CXCL16	25 µg
SC-301-01	Recombinant Human Growth Hormone	20 µg
SC-301-01-1000	Recombinant Human Growth Hormone	1 mg

ELISA kits

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-EK0301	hActA-ELISA	Human Activin A ELISA Kit	96 tests
SC-EK0305	hANG-ELISA	Human ANG ELISA Kit	96 tests
SC-EK0307	hBDNF-ELISA	Human BDNF ELISA Kit	96 tests
SC-EK0308	rBDNF-ELISA	Rat BDNF ELISA Kit	96 tests
SC-EK0309	mBDNF-ELISA	Mouse BDNF ELISA Kit	96 tests
SC-EK0310	hBMP-5-ELISA	Human BMP-5 ELISA Kit	96 tests
SC-EK0311	hBMP-2-ELISA	Human BMP-2 ELISA Kit	96 tests
SC-EK0312	rBMP-2-ELISA	Rat BMP-2 ELISA Kit	96 tests
SC-EK0313	mBMP-2-ELISA	Mouse BMP-2 ELISA Kit	96 tests
SC-EK0314	hBMP-4-ELISA	Human BMP-4 ELISA Kit	96 tests
SC-EK0325	hEGF-ELISA	Human EGF ELISA Kit	96 tests
SC-EK0326	mEGF-ELISA	Mouse EGF ELISA Kit	96 tests
SC-EK0327	hEGFR-ELISA	Human EGFR ELISA Kit	96 tests
SC-EK0333	mEPO-ELISA	Mouse EPO ELISA Kit	96 tests
SC-EK0335	hFAS-ELISA	Human FAS ELISA Kit	96 tests
SC-EK0336	mFAS-ELISA	Mouse FAS ELISA Kit	96 tests
SC-EK0337	hFASL-ELISA	Human FASL ELISA Kit	96 tests

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-EK0348	hFGF-9-ELISA	Human FGF-9 ELISA Kit	96 tests
SC-EK0349	hFN-ELISA	Human Fibronectin ELISA Kit	96 tests
SC-EK0350	rFN-ELISA	Rat Fibronectin ELISA Kit	96 tests
SC-EK0351	mFN-ELISA	Mouse Fibronectin ELISA Kit	96 tests
SC-EK0360	hG-CSF-ELISA	Human G-CSF ELISA Kit	96 tests
SC-EK0361	mG-CSF-ELISA	Mouse G-CSF ELISA Kit	96 tests
SC-EK0362	hGDNF-ELISA	Human GDNF ELISA Kit	96 tests
SC-EK0363	rGDNF-ELISA	Rat GDNF ELISA Kit	96 tests
SC-EK0364	hGM-CSF-ELISA	Human GM-CSF ELISA Kit	96 tests
SC-EK0365	mGM-CSF-ELISA	Mouse GM-CSF ELISA Kit	96 tests
SC-EK0366	rGM-CSF-ELISA	Rat GM-CSF ELISA Kit	96 tests
SC-EK0369	hHGF-ELISA	Human HGF ELISA Kit	96 tests
SC-EK0370	hICAM-1-ELISA	Human ICAM-1 ELISA Kit	96 tests
SC-EK0371	mICAM-1-ELISA	Mouse ICAM-1 ELISA Kit	96 tests
SC-EK0372	rICAM-1-ELISA	Rat ICAM-1 ELISA Kit	96 tests
SC-EK0373	hIFN- γ -ELISA	Human IFN- γ ELISA Kit	96 tests
SC-EK0374	rIFN- γ -ELISA	Rat IFN- γ ELISA Kit	96 tests
SC-EK0375	mIFN- γ -ELISA	Mouse IFN- γ ELISA Kit	96 tests
SC-EK0376	hIGF-1-ELISA	Human IGF-1 ELISA Kit	96 tests
SC-EK0377	rIGF-1-ELISA	Rat IGF-1 ELISA Kit	96 tests
SC-EK0378	mIGF-1-ELISA	Mouse IGF-1 ELISA Kit	96 tests
SC-EK0380	rIGF-2-ELISA	Rat IGF-2 ELISA Kit	96 tests
SC-EK0381	mIGF-2-ELISA	Mouse IGF-2 ELISA Kit	96 tests
SC-EK0382	hIGFBP-ELISA	Human IGFBP-1 ELISA Kit	96 tests
SC-EK0383	mIGFBP-1-ELISA	Mouse IGFBP-1 ELISA Kit	96 tests
SC-EK0386	hIGFBP-3-ELISA	Human IGFBP-3 ELISA Kit	96 tests
SC-EK0387	mIGFBP-3-ELISA	Mouse IGFBP-3 ELISA Kit	96 tests
SC-EK0389	hIL-1 α -ELISA	Human IL-1 α ELISA Kit	96 tests
SC-EK0390	rIL-1 α -ELISA	Rat IL-1 α ELISA Kit	96 tests
SC-EK0391	mIL-1 α -ELISA	Mouse IL-1 α ELISA Kit	96 tests
SC-EK0392	hIL-1 α -ELISA	Human IL-1 α ELISA Kit	96 tests
SC-EK0393	rIL-1 α -ELISA	Rat IL-1 α ELISA Kit	96 tests
SC-EK0394	mIL-1 α -ELISA	Mouse IL-1 α ELISA Kit	96 tests
SC-EK0397	hIL-2-ELISA	Human IL-2 ELISA Kit	96 tests
SC-EK0398	mIL-2-ELISA	Mouse IL-2 ELISA Kit	96 tests
SC-EK0399	rIL-2 -ELISA	Rat IL-2 ELISA Kit	96 tests
SC-EK0402	h IL-3-ELISA	Human IL-3 ELISA Kit	96 tests
SC-EK0403	m IL-3 -ELISA	Mouse IL-3 ELISA Kit	96 tests
SC-EK0404	h IL-4-ELISA	Human IL-4 ELISA Kit	96 tests
SC-EK0405	m IL-4-ELISA	Mouse IL-4 ELISA Kit	96 tests
SC-EK0406	r IL-4-ELISA	Rat IL-4 ELISA Kit	96 tests
SC-EK0407	h IL-5-ELISA	Human IL-5 ELISA Kit	96 tests
SC-EK0408	m IL-5-ELISA	Mouse IL-5 ELISA Kit	96 tests
SC-EK0410	hIL-6-ELISA	Human IL-6 ELISA Kit	96 tests
SC-EK0411	m IL-6-ELISA	Mouse IL-6 ELISA Kit	96 tests
SC-EK0412	rIL-6-ELISA	Rat IL-6 ELISA Kit	96 tests
SC-EK0413	hIL-8-ELISA	Human IL-8 ELISA Kit	96 tests
SC-EK0416	hIL-10-ELISA	Human IL-10 ELISA Kit	96 tests

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-EK0417	mIL-10-ELISA	Mouse IL-10 ELISA Kit	96 tests
SC-EK0418	rIL-10-ELISA	Rat IL-10 ELISA Kit	96 tests
SC-EK0421	hIL-12(p70)-ELISA	Human IL-12(p70) ELISA Kit	96 tests
SC-EK0422	mIL-12(p70)-ELISA	Mouse IL-12(p70) ELISA Kit	96 tests
SC-EK0423	hIL-12(p40)-ELISA	Human IL-12(p40) ELISA Kit	96 tests
SC-EK0426	hIL-15-ELISA	Human IL-15 ELISA Kit	96 tests
SC-EK0430	hIL-17-ELISA	Human IL-17 ELISA Kit	96 tests
SC-EK0431	mIL-17-ELISA	Mouse IL-17 ELISA Kit	96 tests
SC-EK0434	hLaminin -ELISA	Human Laminin ELISA Kit	96 tests
SC-EK0435	rLaminin-ELISA	Rat Laminin ELISA Kit	96 tests
SC-EK0436	mLaminin-ELISA	Mouse Laminin ELISA Kit	96 tests
SC-EK0437	hLeptin-ELISA	Human Leptin ELISA Kit	96 tests
SC-EK0438	mLeptin-ELISA	Mouse Leptin ELISA Kit	96 tests
SC-EK0439	hLeptinR-ELISA	Human Leptin receptor ELISA Kit	96 tests
SC-EK0440	mLeptinR-ELISA	Mouse Leptin receptor ELISA Kit	96 tests
SC-EK0444	hM-CSF-ELISA	Human M-CSF ELISA Kit	96 tests
SC-EK0445	mMCSF-ELISA	Mouse M-CSF ELISA Kit	96 tests
SC-EK0450	hCCL4-ELISA	Human CCL4/MIP-1 beta ELISA Kit	96 tests
SC-EK0458	hMMP-1-ELISA	Human MMP-1 ELISA Kit	96 tests
SC-EK0459	hMMP-2-ELISA	Human MMP-2 ELISA Kit	96 tests
SC-EK0460	mMMP-2-ELISA	Mouse MMP-2 ELISA Kit	96 tests
SC-EK0461	hMMP3-ELISA	Human MMP-3 ELISA Kit	96 tests
SC-EK0462	mMMP3-ELISA	Mouse MMP-3 ELISA Kit	96 tests
SC-EK0465	hMMP9-ELISA	Human MMP-9 ELISA Kit	96 tests
SC-EK0466	mMMP-9-ELISA	Mouse MMP-9 ELISA Kit	96 tests
SC-EK0468	hMMP13-ELISA	Human MMP-13 ELISA Kit	96 tests
SC-EK0469	hNGF-ELISA	Human NGF/NGFβ ELISA Kit	96 tests
SC-EK0470	mNGF-ELISA	Mouse NGF/NGFβ ELISA Kit	96 tests
SC-EK0471	rNGF-ELISA	Rat NGF/NGFβ ELISA Kit	96 tests
SC-EK0472	hNT3-ELISA	Human Neurotrophin-3 ELISA Kit	96 tests
SC-EK0473	mNT3-ELISA	Mouse Neurotrophin-3 ELISA Kit	96 tests
SC-EK0474	rNT-3-ELISA	Rat Neurotrophin-3 ELISA Kit	96 tests
SC-EK0482	hOPN-ELISA	Human OPN ELISA Kit	96 tests
SC-EK0483	mOPN-ELISA	Mouse OPN ELISA Kit	96 tests
SC-EK0484	hPDGF-AB-ELISA	Human PDGF-AB ELISA Kit	96 tests
SC-EK0485	rPDGF-AB-ELISA	Rat PDGF-AB ELISA Kit	96 tests
SC-EK0486	mPDGF-AB-ELISA	Mouse PDGF-AB ELISA Kit	96 tests
SC-EK0494	hRantes-ELISA	Human Rantes ELISA Kit	96 tests
SC-EK0495	mRantes-ELISA	Mouse Rantes ELISA Kit	96 tests
SC-EK0496	rRantes-ELISA	Rat Rantes ELISA Kit	96 tests
SC-EK0501	hSELE-ELISA	Human E-Selectin ELISA Kit	96 tests
SC-EK0503	hSELL-ELISA	Human L-Selectin ELISA Kit	96 tests
SC-EK0504	mSELL-ELISA	Mouse L-Selectin ELISA Kit	96 tests
SC-EK0505	hSELP-ELISA	Human P-Selectin ELISA Kit	96 tests
SC-EK0506	mSELP-ELISA	Mouse P-Selectin ELISA Kit	96 tests
SC-EK0511	hTGF-α-ELISA	Human TGFα ELISA Kit	96 tests
SC-EK0513	hTGFβ1-ELISA	Human TGF-β1 ELISA Kit	96 tests
SC-EK0514	rTGFβ1-ELISA	Rat TGF-β1 ELISA Kit	96 tests

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-EK0515	mTGFβ1-ELISA Kit	Mouse TGFβ1 ELISA Kit	96 tests
SC-EK0525	hTNF-ELISA	Human TNF ELISA Kit	96 tests
SC-EK0526	rTNF-ELISA	Rat TNFα ELISA Kit	96 tests
SC-EK0527	mTNF-ELISA	Mouse TNFα ELISA Kit	96 tests
SC-EK0528	hTNFR1-ELISA	Human TNFR1 ELISA Kit	96 tests
SC-EK0530	hTNFR2-ELISA	Human Soluble TNFR2 ELISA Kit	96 tests
SC-EK0532	hTRAIL-ELISA	Human TRAIL ELISA Kit	96 tests
SC-EK0535	huPA-ELISA	Human uPA/PLAU ELISA Kit	96 tests
SC-EK0536	huPAR-ELISA	Human uPAR ELISA Kit	96 tests
SC-EK0537	hVCAM-ELISA	Human VCAM-1 ELISA Kit	96 tests
SC-EK0538	mVCAM-ELISA	Mouse VCAM-1 ELISA Kit	96 tests
SC-EK0539	hVEGF-ELISA	Human VEGF ELISA Kit	96 tests
SC-EK0540	rVEGF-ELISA	Rat VEGF ELISA Kit	96 tests
SC-EK0541	mVEGF-ELISA	Mouse VEGF ELISA Kit	96 tests
SC-EK0544	hVEGFR-ELISA	Human VEGFR2/KDR ELISA Kit	96 tests
SC-EK0561	hECad-ELISA	Human E-Cadherin ELISA Kit	96 tests
SC-EK0562	mECad-ELISA	Mouse E-Cadherin ELISA Kit	96 tests
SC-EK0563	hCT1-ELISA	Human Cardiotrophin-1 ELISA Kit	96 tests
SC-EK0573	hCD40L-ELISA	Human soluble CD40L ELISA Kit	96 tests
SC-EK0575	hEGVEGF-ELISA	Human EG-VEGF ELISA Kit	96 tests
SC-EK0577	mGp130-ELISA	Mouse Gp130/IL6ST ELISA Kit	96 tests
SC-EK0581	hRes-ELISA	Human Resistin ELISA Kit	96 tests
SC-EK0582	mRes-ELISA	Mouse Resistin ELISA Kit	96 tests
SC-EK0584	hTNFβ-ELISA	Human TNFβ ELISA Kit	96 tests
SC-EK0588	hVEGFC-ELISA	Human VEGF-C ELISA Kit	96 tests
SC-EK0639	rMMP2-ELISA	Rat MMP-2 ELISA Kit	96 tests
SC-EK0641	hSurv-ELISA	Human Survivin ELISA Kit	96 tests
SC-EK0642	hTSP2-ELISA	Human TSP2 ELISA Kit	96 tests
SC-EK0644	hCD105-ELISA	Human CD105 ELISA Kit	96 tests
SC-EK0658	hAPP-ELISA	Human APP ELISA Kit	96 tests
SC-EK0663	hBAFF-ELISA	Human BAFF ELISA Kit	96 tests
SC-EK0664	mBAFF-ELISA	Mouse BAFF ELISA Kit	96 tests
SC-EK0667	hPCad-ELISA	Human P-Cadherin ELISA Kit	96 tests
SC-EK0668	mPCad-ELISA	Mouse P-Cadherin ELISA Kit	96 tests
SC-EK0702	hCD40-ELISA	Human CD40 ELISA Kit	96 tests
SC-EK0703	mCD40-ELISA	Mouse CD40/TNFRSF5 ELISA Kit	96 tests
SC-EK0706	hNCAM-ELISA	Human CD56/NCAM-1 ELISA Kit	96 tests
SC-EK0708	mCD80-ELISA	Mouse B7-1/CD80 ELISA Kit	96 tests
SC-EK0717	mCTLA4-ELISA	Mouse CTLA4 ELISA Kit	96 tests
SC-EK0744	hcMet-ELISA	Human c-Met/HGFR ELISA Kit	96 tests
SC-EK0756	hErbB2-ELISA	Human ErbB-2/Neu2 ELISA Kit	96 tests
SC-EK0757	hFeuA-ELISA	Human Fetuin-A ELISA Kit	96 tests
SC-EK0770	hHBEGF-ELISA	Human HBEGF ELISA Kit	96 tests
SC-EK0777	hIL6Ra-ELISA	Human IL-6Ra ELISA Kit	96 tests
SC-EK0779	hIL7-ELISA	Human IL-7 ELISA Kit	96 tests
SC-EK0780	mIL7-ELISA	Mouse IL-7 ELISA Kit	96 tests
SC-EK0799	hIL27-ELISA	Human IL-27 ELISA Kit	96 tests
SC-EK0807	hCSF1R-ELISA	Human CSF1R/M-CSFR ELISA Kit	96 tests

ScienCell products

OFFER NO.	PRODUCT	DESCRIPTION	SIZE
SC-EK0808	mCSF1R-ELISA	Mouse CSF1R/M-CSFR ELISA Kit	96 tests
SC-EK0816	hKal3-ELISA	Human Kallikrein 3 ELISA Kit	96 tests
SC-EK0829	hRANK-ELISA	Human Receptor Activator of NF-κB (RANK) ELISA Kit	96 tests
SC-EK0830	mRANK-ELISA	Mouse Receptor Activator of NF-κB (RANK) ELISA Kit	96 tests
SC-EK0850	hMPO-ELISA	Human Myeloperoxidase (MPO) ELISA Kit	96 tests
SC-EK0859	hPAI1-ELISA	Human PAI-1 ELISA Kit	96 tests
SC-EK0866	mIL23-ELISA	Mouse IL-23 ELISA Kit	96 tests
SC-EK0867	hDKK1-ELISA	Human DKK-1 ELISA Kit	96 tests
SC-EK0873	hPECAM-ELISA	Human PECAM-1/CD31 ELISA Kit	96 tests
SC-EK0874	mPECAM-ELISA	Mouse PECAM-1/CD31 ELISA Kit	96 tests
SC-EK0884	hBMP7-ELISA	Human BMP-7 ELISA Kit	96 tests
SC-EK0895	hp53-ELISA	Human p53 ELISA Kit	96 tests
SC-EK0904	hCEA-ELISA	Human CEA ELISA Kit	96 tests
SC-EK0906	hTLR2-ELISA	Human TLR2 ELISA Kit	96 tests
SC-EK0907	hTLR3-ELISA	Human TLR3 ELISA Kit	96 tests
SC-EK0925	mDKK-1-ELISA	Mouse DKK1 ELISA Kit	96 tests
SC-EK0928	hTF/F3-ELISA	Human Tissue factor/F3 ELISA Kit	96 tests

Zertifikat

mdc medical device certification GmbH
bescheinigt hiermit, dass das Unternehmen

provitro AG
Charitéplatz 1
10117 Berlin
Deutschland

mit den in der Anlage gelisteten Standorten

im Geltungsbereich

**Entwicklung, Herstellung und Vertrieb von
Gewebe-Mikroarrays, Zellkulturen und Perfusionskammern sowie
Dienstleistungen im Bereich Immunhistochemie**

ein

Qualitätsmanagementsystem

eingeführt hat und anwendet.

Ein Audit von mdc hat den Nachweis erbracht, dass dieses Qualitätsmanagementsystem die Forderungen der folgenden Norm erfüllt:

DIN EN ISO 9001

Qualitätsmanagementsysteme – Anforderungen

(EN ISO 9001:2015 – ISO 9001:2015)

Gültig ab	2024-01-01
Gültig bis	2026-07-30
Registrier-Nr.	D1393900010
Bericht-Nr.	P23-00370-287188
Stuttgart, den	2023-12-20



A. ZP
Leitung Zertifizierungsstelle



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Nur zur elektronischen Verbreitung