

## 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.