**Product Name**

Name: Serum-Free Cell Freezing Medium 2

Cat. No.: C3522-0100, C3522-0500

Size: 100 mL, 500 mL

**Product Description**

The product is a serum-free cell cryopreservation solution that can be used in various animal cell lines (tumor cells, transformed, and non-transformed cells). The product is chemically defined and contains no animal source proteins or serum, eliminating all kinds of bacteria, viruses, and mycoplasma contamination, to ensure the safety of your frozen cells. The freezing medium, containing DMSO, glucose, and other nutrients, improves the survival rate and vitality of the frozen cells and is also suitable for use in serum-free culture and protein expression.

Product Features:

- Ready-to-use, suitable for storing cancer cells, biochemically treated cells, and non-transformed cells.
- Highly safe for your cells, containing no animal serum and thus very low possibility of contamination by viruses, bacteria, and mycoplasma.
- High cell viability and little batch-to-batch variation.

**Scope of application**

It is often used for cryopreservation of cells generated from the serum-free culture system and is also suitable for cryopreservation of cells from the animal-serum culture system.

**Procedure**

**To cryopreserve cells:**

- Collect adherent cells or suspended cells grown to the logarithmic phase.
- Determine the number of cells required for cryopreservation according to the density of cultured cells and the size of cryopreservation tubes.
- Place the required number of cells in a centrifuge tube, centrifuge at 200 *x g* for 5 min, and discard the supernatant in the centrifuge tube.
- Add the appropriate amount of Cell Freezing Medium into the centrifuge tube to adjust the cell concentration to about 5 × $10^5$-1 ×$10^7$/ mL. Mix gently to make a homogeneous cell mixture.
- Divide the cell mixture in the centrifuge tube into labeled frozen storage tubes. It is recommended that each tube should be 1 mL or 1.5 mL of cell mixture.
- After programmed cooling, it is highly recommended to transfer to a liquid nitrogen tank for long-term storage.

**To revive cells:**

- Remove the cell cryopreservation tubes from the liquid nitrogen tank and place them in a 37°C water bath to thaw quickly.
- After the cell mixture in the cryopreservation tubes is completely thawed, add immediately 1 mL of the complete cell culture medium into the cryopreservation tube, and mix with the cells gently. Transfer the mixture to a centrifuge tube containing about 5 mL of the cell culture medium, centrifuge at 200 *x g* for 5 min, and discard the supernatant in the centrifuge tube. (Do not remove the cell sediment during the operation).
- Add fresh cell culture medium to the cell pellet with a pipette and mix gently.
- After microscopic examination, culture the cells according to the needs and the methods of research.

**Storage and Stability**

This product should be stored at 2 - 8°C, protected from light, and used within the expiry date indicated on the product label.

Validity: 18 months.

**Notice:**

- Recommend to transfer to a liquid nitrogen tank for long-term storage after programmed cooling.
- For the cryopreservation of stem cells, we suggest users should conduct experimental cryopreservation and culture of frozen cells for at least 1 week before use, and then proceed to formal cryopreservation after confirming the performance.
- This product contains 5%DMSO. If the cells are sensitive to DMSO, we recommend the cells be frozen for at least 1 week and check for the revival rate, before officially freezing the cells.
- Use the product before the expiry date.

**Quality Control**

Serum-Free Cell Freezing Medium 2 is tested for sterility and pH.

**Precaution and Disclaimer**

For research use only, not for clinical diagnosis, and treatment.