iPSC Cryopreservation Medium

Product Name iPSC Cryopreservation Medium

Cat. No. CS-IPS-D1

Packaging Specification 100mL/Bottle

Expected Use For the cryopreservation of iPSCs derived from various sources, such as blood cells, epithelial cells, and fibroblasts, etc.

Identity

Appearance	Colorless, pale yellow or yellow transparent liquid
Sterility	Sterile
Endotoxin Level	＜0.125 EU/mL
pH	7.2±0.5

Product description

Based on the principle of ice-controlling technology for cell cryopreservation, this product is a ready-to-use cell cryopreservation medium with defined chemical composition, serum-free, protein-free and animal component-free.

Main components Cryoprotectants, inorganic salts, sugars, etc.

Storage conditions and shelf life 2-8°C, protect from light with a shelf life of 12 months.

Instructions for use

This product is sterile and can be used directly without dilution. All cell culture procedures should be carried out in a sterile environment to prevent contamination.

Cryopreservation

1. Digest the fresh iPSC cells or clumps , centrifuge the cells at 300 × g for 10 minutes using a centrifuge.
2. After aspirating the supernatant, gently tap the centrifuge tube with fingertips to disperse the cell pellet.
3. Add appropriate volume (depending on culture system, e.g. 3–5 mL for 6-well plate) of iPSC cryopreservation medium to the centrifuge tube. Avoid pipetting up and down; simply cap the tube and gently invert to mix thoroughly. Generally, when cryopreserving iPSC cell aggregates with this product, the cryopreservation ratio can reach 1:3–1:5.
4. Aliquot the mixed cell suspension into multiple cryovials, with a recommended cryopreservation volume of 1 mL per vial.
5. After aliquoting, promptly transfer the cryovials containing the cell suspension to a -80°C freezer. Programmed cooling is not required.

Thawing

1. Remove the cryovials containing iPSC cell clumps/single cells from the -80 °C freezer or liquid nitrogen, and immediately place them in a 37°C water bath to rapidly thaw the cells.
2. Once the cell suspension in the cryovial is completely thawed, transfer the suspension to a 15 mL centrifuge tube. Add 5 mL of iPSC medium containing Y-27632 inhibitor dropwise while swirling the centrifuge tube to prevent cell damage caused by abrupt changes in osmotic pressure.
3. After diluting the cell suspension with the medium, centrifuge at 300 × g for 10 minutes using a centrifuge .
4. Aspirate the supernatant, then gently tap the centrifuge tube with fingertips to disperse the cell pellet.
5. Add 2 mL of iPSC medium containing Y-27632 inhibitor, gently invert to mix thoroughly, transfer to one well of a 6-well plate, and incubate in a 37°C incubator for 24 hours.

6. After 24 hours, replace the iPSC medium with iPSC medium without Y-27632 inhibitor, then proceed with subsequent culture.

Note

1. Upon receiving the product, please transfer it to a 2-8°C refrigerator for storage.
2. If the packaging is damaged, please contact our sales team immediately to replace the product.
3. This solution is expected to be handled by personnel who have received training in cell culture procedures.
4. If this product contains precipitate, turbidity or unclearly, do not use and contact sales team immediately.
5. To avoid contamination issues, please open the bottle cap in a sterile environment.

Contact

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