ANGIO-PROTEOMIE

DATA SHEET

iPSC Freezing Medium

ORDER INFORMATION
Name of Products: iPSC Freezing Medium
Catalogue Number: **cAP-53**
Product Format: 50.0ml (Frozen, -80C)

General Information
iPSC Freezing Media is a serum free, xeno-free, complete medium for the cryopreservation of various types of human and non-human animal iPSCs. The ready to use solution is quick and convenient, requiring no additional supplements.
In addition to iPSCs, this product has been qualified for use with primary tissue derived organoids, embryonic stem cells (ESC), and iPSCs-derived cells.

Direction for Use
1. Unthawed iPSC Freezing medium should be stored in a -80Freezer for long term storage
2. Thawed iPSC freezing medium can be stored in a 4C refrigerator for a month

Cryopreservation of iPSCs
This protocol is designed for the cryopreservation of cells cultured in a 6 cm dish, using iPSC Non-Enzymatic Dissociation Solution (cAP-51) to detach the cell colonies from the dish. Induced Pluripotent Stem Cell SFM XF (cAP-49) is recommended for feeder-free culture
For optimal results, cryopreserve stem cell colonies when the cell cultures are ⩽80% confluent.

Recommended Dissociation Protocol
This protocol is designed for the dissociation of human iPSC cultured in a 6 cm dish, using iPSC Non-Enzymatic Dissociation Solution (cAP-51) to detach the cell colonies from the dish. Induced Pluripotent Stem Cell SFM XF (cAP-49) is recommended for feeder-free culture. For optimal results, cryopreserve stem cell colonies when the cell cultures are ⩽80% confluent.
1. Aspirate and discard the culture medium.
2. Rinse the cells once with 5 mL of PBS without Ca2+ and Mg2+ per 6-cm dish.
3. Add 3 mL of iPSC Non-Enzymatic Dissociation Solution to the dish and aspirate the solution within 1 minute, so that colonies are exposed to a thin film of liquid.
4. Incubate at Room temperature/37°C for 5 to 10 minutes or until the edges of the individual colonies begin to loosen and fold back. View the dish under the microscope starting at 5 minutes as incubation time may vary depending on the cell line and colony size.
5. Add 3 mL of Induced Pluripotent Stem Cell SFM XF (cAP-49) to the dish, and detach the cells by pipetting up and down 3-4 times with a 1 mL tip. Take care not to over-pipette the culture into a single cell suspension as single cells will not establish colonies after seeding.
7. Transfer the cell aggregates to a 15 mL conical tube.
8. Add an additional 3 mL of Induced Pluripotent Stem Cell SFM XF (cAP-49) medium to the dish to collect any remaining cells. Transfer this rinse to the 15 mL conical tube containing the cell aggregates.
9. Centrifuge the cell aggregates at 200 x g for 5 minutes.
10. Aspirate the supernatant and discard. Gently tap the bottom of the tube to loosen the cell pellet.

Cryopreservation Protocol
1. Detach stem cell colonies from the dish as described in the recommended dissociation protocol.
2. Remove the Stem Cell Freezing Media from storage and swirl to mix. Keep cold. Decontaminate by dipping in or spraying with 70% alcohol.
3. Add 2 mL of cold Stem Cell Freezing Media to the tube containing the cell pellet. Gently resuspend the pellet by pipetting up and down 5-6 times with a 1 mL tip, maintaining the cell aggregates.
4. Immediately transfer 1 mL each of the cell suspension into two labeled cryovials.
5. Freeze the cells gradually at a rate of -1°C/min until the temperature reaches -70°C to -80°C.

Quality Control Specifications
Tested for: pH, appearance, and sterility; Recovery, morphology and differentiation of iPSCs are confirmed after cryopreservation and thawing.

Angio-Proteomie Warranty
The viability of Angio-Proteomie's Cells and Cell-Related Products are warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet.

Disclaimers
This product is intended for laboratory research purposes only. It is not intended for use in humans. While Angio-Proteomie uses reasonable efforts to include accurate and up-to-date information on this product sheet, Angio-Proteomie makes no warranties or representations as to its accuracy.

Related products

iPSC Non-Enzymatic Dissociation Solution	cAP-51	50ml	Angio-Proteomie
ROCK Inhibitor Solution (500 X)	cAP-52	1 ml	Angio-Proteomie
iPSC Freezing Medium	cAP-53	50ml	Angio-Proteomie
ITS (100x)	cAP-26	10ml	Angio-Proteomie
L-Glutamine-MAXIMUM (100x)	cAP-27	100ml	Angio-Proteomie
Human Plasma Fibronectin Solution	cAP-42	1mg/ml	Angio-Proteomie

Caution: Handling human and animal tissue derived products is potentially bio-hazardous. Although each cell strain is tested negative for HIV, HBV and HCV DNA, diagnostic tests are not necessarily 100% accurate; therefore, proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working these materials. Never mouth pipette. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.

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