ANGIO-PROTEOMIE

DATA SHEET

iPSC Non-Enzymatic Dissociation Solution (Ready to Use)

ORDER INFORMATION

Name of Products: iPSC Non-Enzymatic Dissociation Solution (Ready to Use)
Catalogue Number: **cAP-51**
Product Format: 100.0ml

General Information

iPSC Non-Enzymatic Dissociation Solution (cAP-51) is a proprietary enzyme-free and chemically defined stem cell dissociation reagent that selectively passages only undifferentiated pluripotent stem cells. The reagent eliminates the need for manual removal of differentiated cells and produces high cell viability. By nature of its selectivity for undifferentiated pluripotent stem cells, iPSC Non-Enzymatic Dissociation Solution can also be used to rescue highly differentiated iPSC cultures, thus enabling the recovery of precious samples and time.

Direction for Use

1. Store at 15-25C (stable for 12 months)

Passaging of iPSCs

This protocol is designed for the passaging 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. Plate the cell aggregate mixture at the desired density onto pre-coated dishes containing cAP-49 medium. If the colonies are at an optimal density, the cultures can be split every 4 - 7 days using 1 in 10 to 1 in 50 splits (i.e. cell aggregates from 1 dish can be plated in 10 to 50 wells).

Quality Control Specifications

pH: 7.2-7.4
Sterility Tested: Pass

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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