PRODUCT DATA SHEET

PRODUCT: Mouse immortalized peritoneal mesothelium (MDM)

CATALOG NUMBER: CL 01002-CLTH

SHIPPED IN: Dry ice

STORAGE: Liquid nitrogen

QUANTITY & CONCENTRATION:

1 mL, 1 x 10^6 cells/mL in DMEM with 10% FBS and 10% DMSO

PHYSICAL FORM

Mouse immortalized peritoneal mesothelium (MDM)cell lines are provided to customers in vials containing >1.0e6 cells/mL

BACKGROUND/DESCRIPTION

The MDM cell line is established from mouse peritoneal mesothelium immortalized with large antigen SV40. The MDM cell line is characterized by a high proliferation rate. The MDM cells are large and planar, rapidly covering the plate surface. At higher confluence, the MDM cells may be efficiently used as a feeder layer.

QUALITY CONTROL

This cryovial contains at least 1.0 × 10^6 MDM cells as determined by morphology and viable cell count. The MDM cells are tested free of microbial contamination.

MEDIUM

Complete Growth Medium: the base medium for this cell line is : DMEM (high glucose) with L-glutamine (catalogue no MED 02001-CLTH)
To make the complete growth medium, add the following components to the base medium: 10% fetal bovine serum (FBS) (catalogue no MED 02002-CLTH), 0.1 mM MEM NonEssential Amino Acids (NEAA), 2 mM L-glutamine and 1% Penicillin/streptomycin.

UNPACKING & STORAGE INSTRUCTIONS

1. Check all containers for leakage or breakage.
2. Thaw the frozen cryovial according to subculturing procedure.
3. Optimally: Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below 80°C, preferably in liquid nitrogen vapor, until ready for use.

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HANDLING PROCEDURE FOR FROZEN CELLS

Establishing the MDM cell cultures:
1. Place 10 mL of medium (as above) in a 15-mL conical tube.
2. Thaw the frozen cryovial in a 37°C water bath. Decontaminate the cryovial by wiping the surface of the vial with 70% (v/v) ethanol.
3. Transfer the cells to the conical tube containing the medium.
4. Centrifugation at 1100 rpm for 7 minutes at room temperature and then remove the medium.
5. Resuspend the cells in the fresh medium and transfer to a T-75 tissue culture flask.
6. Place the cells in a 37°C incubator at 5% CO2. Monitor the cell density daily.

SUBCULTURING PROCEDURE

1. Discard culture medium.
2. Briefly rinse the cell layer with PBS and discard it.
3. Add 1 mL 0.05% (w/v) Trypsin - 0.53 mM EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 5 minutes). To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal.
4. Add 6.0 to 8.0 ml of complete growth medium and aspirate cells by gently pipetting.
5. Centrifuge cells 200xg for 5 min and suspend cells in fresh Complete Growth Medium.
6. Add appropriate aliquots of the cell suspension to new culture vessels.
7. Incubate cultures at 37°C, 5% CO_2

Subcultivation Ratio: A subcultivation ratio of 1:3 to 1:8 is recommended.
Medium Renewal: Thrice per week.

SAFETY PRECAUTION

Celther Polska Sp. z o.o. highly recommends using protective gloves and clothing and wearing a full face mask always when handling frozen vials. It is important to note that some vials leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. During thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vessel exploding or blowing off its cap with dangerous force creating flying debris.
The product should be handled by trained personnel observing good laboratory practices. It is important to avoid breathing vapor, avoid skin contact or swallowing.

BIOSAFETY LEVEL: 1

Appropriate safety procedures should always be used with this material. Please check all safety procedures required in your country.

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WASTE DISPOSAL

Celther Polska higly recommends that waste always be returned to special company responsible for utilizing such type of waste.

CELTHER POLSKA SP. Z O.O. WARRANTY

The viability of Celther Polska products is unlimited only if the product is stored and cultured according to the information included on this product information sheet. Celther Polska Sp z o.o. recommends to subculture the cells no later than date provided on product's package. After this date it is possible that cells lose their viability. Celther Polska outlines the list of media formulation that has been found to be effective for this strain. While other, unspecified media may also give satisfactory results, a change in media or the absence of an additive from the Celther recommended media may cause problems with recovery, growth and/or function of this strain. If an alternative medium formulation is used, the Celther warranty for viability is no longer valid.

DISCLAIMERS / LEGAL INFORMATION

This product is intended for laboratory research purposes only. It is not intended for use in humans.
While Celther uses reasonable efforts to include accurate and up to date information on this product sheet, Celther makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Celtherdoes not warrant that such information has been confirmed to be accurate.
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CONTACT INFORMATION

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