PRODUCT DATA SHEET

PRODUCT: **U87MG vIII 4.12**

CATALOG NUMBER: **CL 01004-CLTH**

SHIPPED IN: dry ice

STORAGE:

Note: For best results begin culture of cells immediately upon receipt. If this is not possible, store at -80ºC until first culture. Store subsequent cultured cells long term in liquid nitrogen.

QUANTITY & CONCENTRATION:

1 mL, 1 x 10^6 cells/mL in 80% MEM, 10% FBS, 10% DMSO

PHYSICAL FORM

U87MG vIII 4.12 clone cell lines are provided to customers in vials containing >1x10^6 cells/mL

BACKGROUND/DESCRIPTION

The U87MG vIII 4.12 cell line is a permanent line established from cell line derived from human malignant glioma, classified as glioblastoma. U87MG vIII (4.12) cell line stably expresses high levels of EGF mutant receptor vIII and G418-resistance gene introduced by plasmid's stable transfection.

QUALITY CONTROL

The cryovial contains at least 1.0 × 10^6 U87MG vIII (4.12) cells as determined by morphology, antibiotic selection and viable cell count. U87MG vIII (4.12) cells are tested free of microbial contamination.

MEDIUM

Complete Growth Medium: the base medium for this cell line is: MEM (catalogue number MED 02004-CLTH)
To make the complete growth medium, add the following components to the base medium:
10% fetal bovine serum (FBS) (MED 02002-CLTH), 1% Pen-Strep, 0,2% Gentamycin, (optional) 200 µg/mL G418.

Freeze Medium: 80% MEM, 10% FBS, 10% DMSO.

PRODUCT DATA SHEET

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.

HANDLING PROCEDURE FOR FROZEN CELLS

Establishing U87MG vIII (4.12) Cultures from Frozen Cells

1. Place 10 mL of complete MEM growth medium in a 50-mL conical tube and warm to room temperature.
2. Thaw the frozen cryovial of cells within 1–2 minutes by gentle agitation in a 37°C water bath. Decontaminate the cryovial by wiping the surface of the vial with 70% (v/v) ethanol.
3. Pipet cells gently into a sterile 15ml conical tube and slowly add 5ml complete MEM growth medium dropwise to conical tube containing cells.
4. Collect the cells by centrifugation at 1000 rpm for 5 minutes at room temperature. Remove the growth medium by aspiration.
5. Resuspend the cells in the conical tube in 15 mL of fresh growth medium by gently pipetting up and down.
6. Transfer the 15 mL of cell suspension to a T-75 tissue culture flask. Place the cells in a 37°C incubator at 5% CO2.
7. Monitor cell density daily. Cells should be passaged when the culture reaches 95% confluence.

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

PRODUCT DATA SHEET

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.

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 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. 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. Celther does not warrant that such information has been confirmed to be accurate.
This product is sent with the condition that you are responsible for its safe storage, handling, and use. Celther is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, Celther is not liable for damages arising from the misidentification or misrepresentation of cultures.
While Celther allows to do further modification of the product, Celther does not allow to resale the product without Celther permission. Furthermore, this product is intended for using in a purchaser laboratory research only.

PRODUCT DATA SHEET

The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide for experienced personnel. Celther Polska shall not be held liable for any damage resulting from the handling or from contact with the above product(s).

CONTACT INFORMATION

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