

## PRODUCT DATA SHEET

**PRODUCT:** Primary human glioblastoma cells CLTH/GBM

**CATALOG NUMBER:** CL 04004-CLTH

**SHIPPED IN:** Dry ice

**STORAGE:** Storage temperature: liquid nitrogen vapor phase

Note: For best results begin culture of cells immediately upon receipt. If this is not possible, store at -80°C up to one month or for long term store in liquid nitrogen vapor phase.

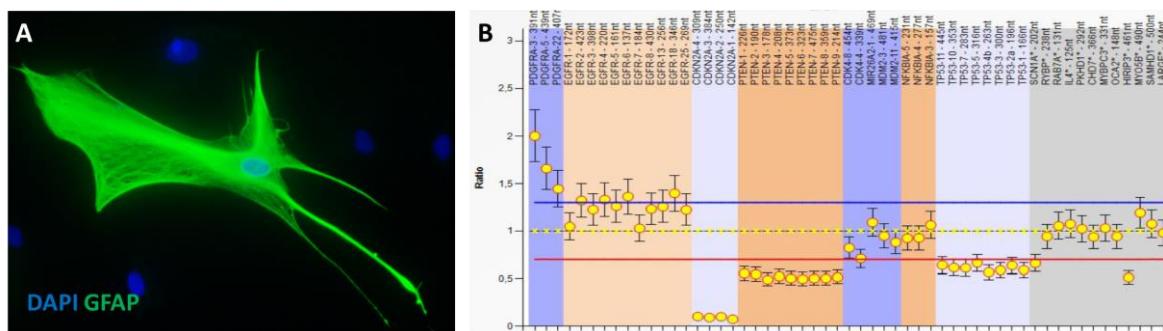
**PASSAGE:** 0-2

### QUANTITY & CONCENTRATION:

Cells are provided to customers in vials containing approx.  $0.5 \times 10^5$  cells/mL in complete ABM Medium (Lonza) supplemented with 10% (v/v) DMSO

### BACKGROUND/DESCRIPTION:

Primary human glioblastoma cells CLTH/GBM are obtained from human glioblastoma tumours, diagnosed according to WHO criteria. Cells can be maintained in adherent culture and are analyzed using MLPA, as well immunocytochemical staining for the expression of GFAP (+) and  $\alpha$ -SMA (-).



**Fig. 1.** (A) Exemplary immunocytochemical staining of CLTH/GBM culture; (B) Exemplary result of MLPA analysis.

## PRODUCT DATA SHEET

### QUALITY CONTROL:

This cryovial contains at least  $0.5 \times 10^5$  cells/mL, as determined by automated cell. Culture is free of microbial contamination.

### MEDIUM:

As culture medium we recommend: complete ABM Medium.

### 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  $80^{\circ}\text{C}$ , preferably in liquid nitrogen vapor, until ready for use.

### HANDLING PROCEDURE FOR FROZEN CELLS:

Establishing the CLTH/GBM glioblastoma cells:

1. Equilibrate desired culture medium in  $37^{\circ}\text{C}$  for at least 30 minutes.
2. Place 10 mL of medium in a 15 mL conical tube.
3. Quickly thaw the frozen cryovial in a  $37^{\circ}\text{C}$  water bath (remember to decontaminate the cryovial by wiping the surface of the vial with 70% (v/v) ethanol).
4. Transfer cells to the conical tube containing the medium.
5. Centrifuge cells at  $200 \times g$  for 4 min at room temperature and then remove the medium.
6. Gently resuspend the cells in the small amount of fresh medium and transfer them to an equilibrated culture dish with the appropriate growth medium.
7. Place the cells in a  $37^{\circ}\text{C}$  incubator at 5%  $\text{CO}_2$  and 5%  $\text{O}_2$ .

### SUBCULTURING PROCEDURE:

1. Discard culture medium.
2. Briefly rinse cell layer with HBSS.
3. Add Accutase solution to culture dish and leave it for up to 5 min at room temperature.
4. Wash detached cells with the appropriate medium and transfer the whole solution to a conical 15 mL tube.
5. Centrifuge cells  $200 \times g$  for 4 min at room temperature and then remove the medium.
6. Gently resuspend the cells in the appropriate amount of fresh medium and transfer to the appropriate number of equilibrated culture dishes/plate wells with the appropriate growth



## PRODUCT DATA SHEET

medium.

Subcultivation Ratio: 1:3 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.

### WASTE DISPOSAL

Celther Polska highly 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



## **PRODUCT DATA SHEET**

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.

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**

All information relating this product is available via email: [orders@celther.com](mailto:orders@celther.com)