

## PRODUCT DATA SHEET

**PRODUCT:** Primary human prostate cancer cell culture CLTH/PC

**CATALOG NUMBER:** CL 04001-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.

### QUANTITY & CONCENTRATION:

Cells are provided to customers in vials containing  $1 \times 10^6$  cells/mL in Freeze Medium (FBS supplemented with 10 % (v/v) DMSO)

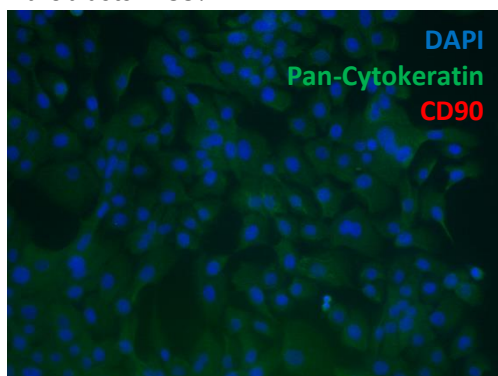
### PHYSICAL FORM

CLTH/PC cell lines are provided to customers in vials containing  $>1.0e6$  cells/mL

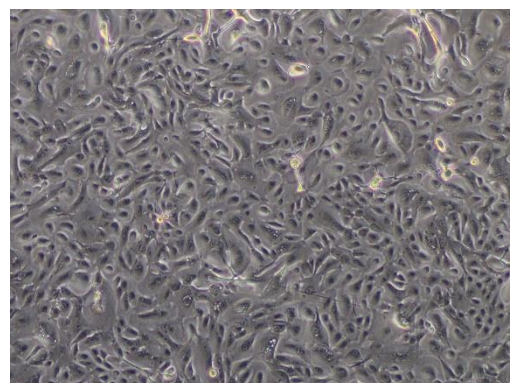
**PASSAGE:** 3

### BACKGROUND/DESCRIPTION

The CLTH/PC cell culture is gained from human prostate adenocarcinoma sample. The cells grow adherent. The CLTH/PC have been characterized as epithelial cells via morphological observation throughout serial passages and positive staining for pan-Cytokeratin (see figures 1 and 2). Delivered cells are also positive for MUC-1 specific for tumor cells. CD90 staining shows that cultures are free of fibroblasts in 99%.



**Fig. 1.** Immunofluorescence staining using pan-Cytokeratin antibody for detecting epithelial cells. Magnification 10 x 10 microscope. Magnification 10 x 4.



**Fig. 2.** Phase-contrast microscopy of primary prostate epithelial cells (magnification 10 x 4)



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### QUALITY CONTROL

This cryovial contains at least  $1.0 \times 10^6$  CLTH/PC cells as determined by viable cell count. The CLTH/PC are free of microbial contamination.

### MEDIUM

As culture medium we recommend Clonetics™ PrEGM™ Prostate Epithelial Cell Growth Medium Prostate Culture Medium from Lonza (PrEGM BulletKit (CC-3165 & CC-4177) – Cat no CC-3166) with antibiotics, if desired. Adding of Y-27632 or another ROCK inhibitor to medium can improve culturing results (e.g. 5 to 10  $\mu\text{mol/L}$  of Y-27632 from Stemcell technologies, Cat no.: 72302).

### 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/PC cell cultures:

1. The recommended seeding density is 100-200 cells/ $\text{mm}^2$ .
2. Before thawing cells calculate the number of needed vessels and allow them to equilibrate with desired medium in  $37^\circ\text{C}$ , 5%  $\text{CO}_2$ , 5%  $\text{O}_2$  humidified incubator for at least 30 minutes. Using dishes coated with collagen or other attachment factors enhances cells survival.
3. Place 10 mL of medium in a 15-mL conical tube.
4. Quickly thaw the frozen cryovial in a  $37^\circ\text{C}$  water bath. Decontaminate the cryovial by wiping the surface of the vial with 70% (v/v) ethanol.
5. Transfer the cells to the conical tube containing the medium.
6. Centrifugation at  $150 \times g$  for 7 minutes at room temperature and then remove the medium.
7. Resuspend the cells in the small amount of fresh medium and transfer to an equilibrated culture dish with desired growth medium.
8. Place the cells in a  $37^\circ\text{C}$  incubator at 5%  $\text{CO}_2$  and 5%  $\text{O}_2$ . Monitor the cell density every second day.

### SUBCULTURING PROCEDURE

1. Discard culture medium.
2. Briefly rinse the cell layer with HBSS and discard it.
3. Add Trypsin-EDTA 0,25% solution to culture dish and place it at  $37^\circ\text{C}$  humidified incubator for 2 min. Monitor cell detachment with use of inverted microscope (usually it takes 4 minutes).
4. Add trypsin neutralizing solution or medium containing serum and scratch cells with a cell scraper.
5. Centrifuge cells  $150 \times g$  for 7 min and resuspend cells in fresh growth medium.



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6. Add appropriate aliquots of the cell suspension to new culture vessels.
7. Incubate cultures at 37°C, 5% CO<sub>2</sub>, 5% O<sub>2</sub>

Subcultivation Ratio: A subcultivation ratio of 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.

### CELATHER 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.

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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.



## **PRODUCT DATA SHEET**

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**

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