

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 1×10^6 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 $>1.0 \times 10^6$ cells/mL

PASSAGE: 1-2

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%.

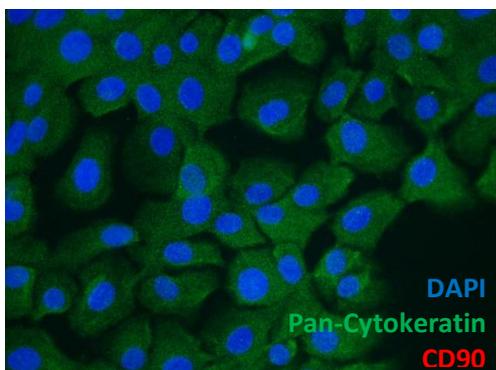


Fig. 1. Immunofluorescence staining using pan-Cytokeratin antibody for detecting epithelial cells. Magnification 10 x 10 microscope. Magnification 10 x 4.

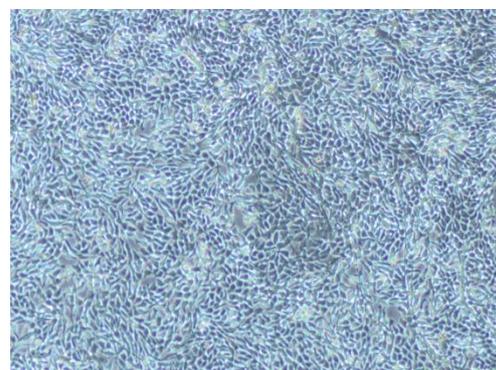


Fig. 2. Phase-contrast microscopy of primary prostate epithelial cells (magnification 10 x 4)

AMSBIO | www.amsbio.com | info@amsbio.com

UK & Rest of the World 
184 Park Drive, Milton Park
Abingdon OX14 4SE.
T: +44 (0) 1235 828 200
F: +44 (0) 1235 820 482

North America 
1035 Cambridge Street,
Cambridge, MA 02141.
T: +1 (617) 945-5033 or
T: +1 (800) 987-0985
F: +1 (617) 945-8218

Europe 
Berenkoog 41,
1822 BH Alkmaar,
Netherlands
T: +31 (0)728080244
F: +31 (0)728080142

Switzerland 
Via Lisano 3,
(CP.683)
CH-6900
T: +41 (0) 91 604 55 22
F: +41 (0) 91 605 17 85

Germany 
Bockenheimer Landstr. 17/19
60325 Frankfurt/Main
T: +49 (0) 69 779099
F: +49 (0) 69 13376880

PRODUCT DATA SHEET

QUALITY CONTROL

This cryovial contains at least 1.0×10^6 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°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/ mm^2 .
2. Before thawing cells calculate the number of needed vessels and allow them to equilibrate with desired medium in 37°C , 5% CO_2 , 5% 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°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°C incubator at 5% CO_2 and 5% O_2 . Monitor the cell density every second day.

SUBCULTURING PROCEDURE

AMSBIO | www.amsbio.com | info@amsbio.com

UK & Rest of the World 
184 Park Drive, Milton Park
Abingdon OX14 4SE.
T: +44 (0) 1235 828 200
F: +44 (0) 1235 820 482

North America 
1035 Cambridge Street,
Cambridge, MA 02141.
T: +1 (617) 945-5033 or
T: +1 (800) 987-0985
F: +1 (617) 945-8218

Europe 
Berenkoog 41,
1822 BH Alkmaar,
Netherlands
T: +31 (0)728080244
F: +31 (0)728080142

Switzerland 
Via Lisano 3,
(CP.683)
CH-6900
T: +41 (0) 91 604 55 22
F: +41 (0) 91 605 17 85

Germany 
Bockenheimer Landstr. 17/19
60325 Frankfurt/Main
T: +49 (0) 69 779099
F: +49 (0) 69 13376880

PRODUCT DATA SHEET

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°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 x g for 7 min and resuspend cells in fresh growth medium.
6. Add appropriate aliquots of the cell suspension to new culture vessels.
7. Incubate cultures at 37°C, 5% CO₂, 5% O₂

Subcultivation Ratio: A subcultivation ratio of 1:3 is recommended.

Medium Renewal: Thrice per week.

SAFETY PRECAUTION

AMSBIO 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 submerged 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

AMSBIO highly recommends that waste always be returned to special company responsible for utilizing such type of waste.

WARRANTY

The viability of AMSBIO 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. AMSBIO 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 recommended media may cause problems with recovery, growth and/or function of this strain. If an alternative medium formulation is used, the warranty for viability is no longer valid.

AMSBIO | www.amsbio.com | info@amsbio.com

UK & Rest of the World 
184 Park Drive, Milton Park
Abingdon OX14 4SE.
T: +44 (0) 1235 828 200
F: +44 (0) 1235 820 482

North America 
1035 Cambridge Street,
Cambridge, MA 02141.
T: +1 (617) 945-5033 or
T: +1 (800) 987-0985
F: +1 (617) 945-8218

Europe 
Berenkoog 41,
1822 BH Alkmaar,
Netherlands
T: +31 (0) 72 8080244
F: +31 (0) 72 8080142

Switzerland 
Via Lisano 3,
(CP.683)
CH-6900
T: +41 (0) 91 604 55 22
F: +41 (0) 91 605 17 85

Germany 
Bockenheimer Landstr. 17/19
60325 Frankfurt/Main
T: +49 (0) 69 779099
F: +49 (0) 69 13376880

PRODUCT DATA SHEET

DISCLAIMERS / LEGAL INFORMATION

This product is intended for laboratory research purposes only. It is not intended for use in humans. While AMSBIO uses reasonable efforts to include accurate and up to date information on this productsheet, AMSBIO makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. AMSBIO 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. AMSBIO 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, AMSBIO is not liable for damages arising from the misidentification or misrepresentation of cultures. While AMSBIO allows to do further modification of the product, AMSBIO does not allow to resale the product without 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. AMSBIO 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: info@amsbio.com

AMSBIO | www.amsbio.com | info@amsbio.com

UK & Rest of the World 
184 Park Drive, Milton Park
Abingdon OX14 4SE.
T: +44 (0) 1235 828 200
F: +44 (0) 1235 820 482

North America 
1035 Cambridge Street,
Cambridge, MA 02141.
T: +1 (617) 945-5033 or
T: +1 (800) 987-0985
F: +1 (617) 945-8218

Europe 
Berenkoog 41,
1822 BH Alkmaar,
Netherlands
T: +31 (0)728080244
F: +31(0)728080142

Switzerland 
Via Lisano 3,
(CP.683)
CH-6900
T: +41 (0) 91 604 55 22
F: +41 (0) 91 605 17 85

Germany 
Bockenheimer Landsstr. 17/19
60325 Frankfurt/Main
T: +49 (0) 69 779099
F: +49 (0) 69 13376880