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Product Information Sheet

Human Panc-1 Expansion Media

Catalog Number: MR1013

Product Overview	
Product Name	**Human Panc-1 Expansion Media**
Catalog #s	MR1012
Quantity	450 mL
Product Form	Liquid
Cell Type	Human Panc-1 Cell (CET SKU: CR1016-500)
Reagents Needed	Customer choice of high grade or fully defined Fetal Bovine Serum (FBS) (not included) Penicillin/Streptomycin/Amphotericin B solution or Penicillin/Streptomycin solution, 100X (not included)[1]

Product Description

Human Panc-1 Pancreatic Carcinoma Expansion Media

Panc-1 Expansion Media is specifically designed to support the rapid and robust growth of human pancreatic carcinoma cells, providing optimal conditions for Panc-1 cell proliferation, viability, and metabolic activity. In particular, we formulated this media for use with CETs proprietary Panc-1 Carcinoma cell line CR1016-500. This media maintains cellular integrity and function, making it ideal for cancer research, drug screening, and tumor biology studies.

Panc-1 cells, derived from a pancreatic ductal adenocarcinoma, exhibit epithelial morphology and adherent growth patterns in culture. Moreover, these cells are used for studying cancer cell migration, keratin reorganization, calcium-mediated actin reset, and high-throughput screening applications [i]. Thus, we design our media to enhance cell attachment, reduce clumping, and sustain long-term cultures, ensuring reliable and reproducible experimental results. Researchers can confidently use this media for multiple pancreatic cancer cell models but we recommend using it with our Panc-1 cells.

Product Specifications:

- Optimized for: Panc-1 cell proliferation and tumor biology studies
- Serum Compatibility: Compatible with various supplements, including fetal bovine serum (FBS)
- Applications: 3D cell culture, assay development, cancer research, and drug discovery
- Quality Assurance: Screened for sterility and mycoplasma contamination

Related Products to Panc-1 Expansion Media:

- Human Panc-1 Pancreatic Carcinoma Cells (CR1016-500)
- Human Panc-1 Research Start Kit (BR1002)

Shipping & Storage:

- Shipped with gel packs to maintain stability
- Storage: Refrigerate at 2°C–8°C upon arrival for optimal shelf life

Note: This product is designed and tested to function with Cellular Engineering Technologies Inc. ("CET") product CR1016-500 Human Panc-1 Carcinoma Cells (not included). Although investigators are welcome to use this product with other Panc-1 cell products, CET cannot and will not guarantee this product's performance. Additionally, such use of third-party cell lines with this product will void CET's warranty should they not function as indicated. Please refer to CET's Terms & Conditions, which are available on www.celleng-tech.com.

Product Image

Media Formulation Instructions

Defrosting / Preparation	Defrost 50mL of FBS (not included) and 5mL of antibiotic/antimycotic solution (not included) in a 37°C water bath until ice in the tubes are no longer visible. Immediately disinfect the tubes and the bottle containing this base media with 70% isopropanol (not included).
Mixing	Working in a laminar flow hood, remove 5mL of the base media from the bottle and discard. This and all other procedures must be done in a sterile manner. Add 50mL of FBS to this base media. Add 5mL of the antibiotic/antimycotic solution to the base

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	media[1]. Cap the bottle containing the mixed liquid solution and gently swirl a few times. This formulated media is now considered complete media and ready to use with cells.

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Cell Thawing Instructions (with CR1016-500 Human Panc-1 Carcinoma Cells *not included*)	
Thawing	Remove vial of Human Panc-1 Cells (CR1016-500) from dry ice. Defrost the vial of cells in a 37°C water bath with constant, moderate agitation, until ice in the ampoule is barely visible. DO NOT OVERTHAW. Immediately disinfect the vial with 70% isopropanol (not included).
Mixing	Working in a laminar flow hood, open the vial and transfer the contents to a sterile 15 mL tube. Very slowly, add approximately 10mL of complete media (see Media Formulation Instructions), pre-warmed to 37°C. Centrifuge the suspended cells at 200 x g for 5 minutes. Decant the medium and gently resuspend the pellet in 10mL of complete media (see Media Formulation Instructions), then transfer into a T-25 (25 cm^2) cell culture flask (not included).
Observation	Observe the cells microscopically to estimate cell viability and then place flask in an incubator at 37°C, 5% CO_2 and 90% humidity. Cells will be ready to pass between 3-7 days. Cells should be sub-cultured at a density of 5,000 to 10,000 cells/cm or desired plating density.

Storage and Stability		
	Storage Temperature	**Storage Time**
Panc-1 Expansion Media	4°C	3 months
complete media *(see Media Formulation Instructions)*	4°C	Not applicable
Avoid repeated exposure to room temperature and light.		

[1] These solutions should be portioned in 5mL aliquots, stored at -20C and never frozen/thawed. Although antimycotics are not necessary, CET highly recommends their usage for long-term cell culture. Antibiotics and antimycotics should not be used as an alternative to proper aseptic techniques.

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