

Product Summary

Human Fibroblast Expansion Media
Catalog Number: MR1011

Product Overview	
Product Name	Human Fibroblast Expansion Media
Catalog #s	MR1011
Quantity	450 mL
Product Form	Liquid
Cell Type	Human Primary Fibroblast Cells
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
<p>Human Fibroblast Expansion Media</p> <p>Human Fibroblast Expansion Media is a high-performance, serum-compatible formulation. Designed for the robust expansion and cultivation of primary human dermal fibroblasts from neonatal, juvenile, and adult donors. Providing essential nutrients to promote fibroblast proliferation, this media maintains cellular integrity and functionality.</p> <p>Our fibroblast expansion media is engineered to support rapid cell attachment, consistent growth rates, and high viability across multiple passages. The base media is compatible with a variety of animal-origin serums, allowing researchers to customize supplementation according to experimental needs.</p> <p>This media formulation is ideal for a wide range of applications: including wound healing research, extracellular matrix studies, and tissue engineering. This ensures reliable fibroblast culture conditions, enabling researchers to generate reproducible and physiologically relevant models for dermatological, regenerative medicine, and cell therapy investigations.</p> <p>Carefully manufactured to minimize batch-to-batch variability, our Fibroblast Expansion Media ensures consistent performance in every experiment.</p> <p>Complete Medium Recipe</p> <ul style="list-style-type: none"> • We recommend adding the following to create fully functional complete media <ul style="list-style-type: none"> ○ a high-quality or fully defined Fetal Bovine Serum (FBS) ○ antibiotic/antimycotic solution to enhance cell health and reduce contamination risks <p>Shipping & Storage</p> <ul style="list-style-type: none"> • The media ships with gel packs to maintain stability and preserve essential components during transit • Upon arrival, store at the recommended temperature to ensure maximum shelf life and peak performance. <p><small>Note: This product is designed and tested to function with human primary dermal fibroblast cells. CET cannot guarantee this product's performance with an unknown cell type. 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.cet.bio.</small></p>



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).

FOR RESEARCH APPLICATIONS ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Mixing	Working in a laminar flow hood, remove 5mL of the base media from the bottle and discard it. This and all other procedures must be done in a sterile manner. Add 50mL of FBS to the base media. Add 5mL of the antibiotic/antimycotic solution to the base media ¹ . Cap the bottle containing the mixed liquid solution and gently swirl it a few times. This formulated media is now considered complete and ready to use with cells.
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Cell Thawing Instructions for Human Cystic Fibrosis Patient Fibroblasts

Thawing	Remove vial of Human Cystic Fibrosis Patient Fibroblasts 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).
Plating	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 the 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
Human Fibroblast Expansion Media	4°C	3 months
complete media (see Media Formulation Instructions)	2-8°C	Not applicable

Avoid repeated exposure to room temperature and light.

Publications and Product Citations

[Preclinical Testing of an Oncolytic Parvovirus: Standard Protovirus H-1PV Efficiently Induces Osteosarcoma Cell Lysis In Vitro](#)

Geiss, C. et al. | Viruses 2017 OCT

Division of Tumor Virology, Program Infection, Inflammation and Cancer, German Cancer Research Center (DKFZ)

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.