

Product Information Sheet

Human Lung Cancer Associated Fibroblast Expansion Media

Catalog Number: MR1005

Product Overview	
Product Name	Human Lung Cancer Associated Fibroblast Expansion Media
Catalog #s	MR1005
Quantity	450 mL
Product Form	Liquid
Cell Species	Human
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 Lung Cancer-Associated Fibroblast Expansion Media</p> <p>Our Human Lung Cancer-Associated Fibroblast (LCAF) Expansion Media is a high-performance basal medium specifically formulated to support the robust proliferation of lung cancer-associated fibroblasts [1]. This advanced media system provides the essential nutrients, growth factors, and optimized conditions required for sustained cell expansion, ensuring high viability and consistent growth across multiple passages. It is an ideal choice for cancer research, tumor microenvironment modeling, and drug screening applications.</p> <p>Our LCAF Expansion Media is transfection-compatible, allowing seamless integration with available transfection reagents for gene expression studies and functional assays. Additionally, the formulation is compatible with a wide range of animal-origin serums, giving researchers the flexibility to customize supplementation according to their experimental needs. This adaptability ensures optimal cell performance while maintaining consistency in proliferation and metabolic activity.</p> <p>Engineered for superior cell attachment, high-density expansion, and long-term culture stability, this media minimizes variability and enhances experimental reproducibility. Researchers can rely on our optimized formulation to support LCAF growth in studies focused on cancer-stromal interactions, extracellular matrix remodeling, and tumor progression mechanisms.</p> <p>By offering a stable and well-defined environment for fibroblast expansion, our media streamlines workflows and accelerates experimental timelines. Scientists can confidently use this formulation to explore fibroblast biology, test therapeutic interventions, and investigate lung cancer pathophysiology.</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"> Shipping: Media is shipped with gel packs to maintain stability and preserve critical components. Storage: Store at the recommended temperature upon arrival to maximize shelf life and performance. <p>Although investigators are welcome to use this product with other cell products, CET cannot and will not guarantee this product's performance. Additionally, using 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, available at www.cet.bio.</p>



Media Formulation Instructions

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

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 is 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 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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Storage and Stability		
	Storage Temperature	Storage Time
Human Lung Cancer Associated Fibroblast 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.