

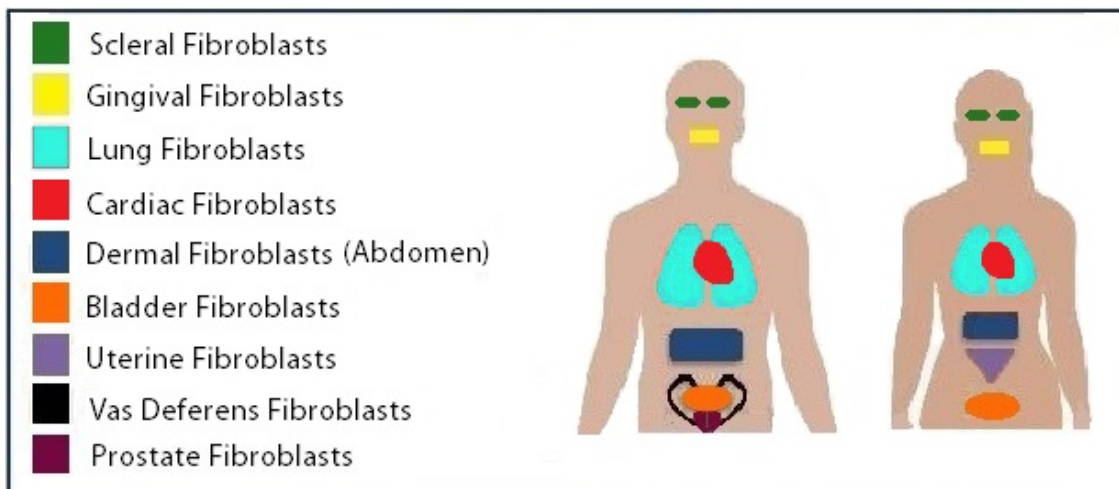
## Normal Human Fibroblast Cell Systems and Media

**Dermal Fibroblasts-Neonatal (HDFn)**  
**Dermal Fibroblasts-Neonatal Xeno-Free (HDFn-XF)**  
**Dermal Fibroblasts-Adult (HDFa)**  
**Bladder Fibroblasts (HBF)**  
**Cardiac Fibroblasts (HCF)**  
**Gingival Fibroblasts (HGF)**

**Lung Fibroblasts (HLF)**  
**Prostate Fibroblast (HPrF)**  
**Scleral Fibroblasts (HScF)**  
**Uterine Fibroblasts (HUtF)**  
**Vas Deferens Fibroblasts (HVDF)**

Lifeline's Normal Human Fibroblast Cells, when grown in Lifeline brand culture medium, provide ideal cell system to study wound healing, toxicology, cancer, or basic cell biology in various organs including skin, lung, bladder, and the reproductive systems. Our normal Human Fibroblasts can also be used for drug screening, drug development, and genome editing applications. Additionally, our fibroblasts are ideal for establishing serum free human feeder layers for human embryonic stem cells (ESCs), induced pluripotent stem cells (iPSCs), and other cell culture applications requiring feeder layers.

Lifeline's Fibroblast Cells are cryopreserved at the earliest possible passage to ensure the highest viability and plating efficiency. Our fibroblasts are quality tested in FibroLife™ S2 or FibroLife Xeno-Free Medium to ensure proper growth and morphology over a period of at least 15 population doublings. (FibroLife Xeno-Free medium is optimized for the culture of fibroblasts without the use of animal-derived components). Lifeline's cells need not be exposed to Retinoic Acid or Phenol Red when cultured in Lifeline culture media.



### NORMAL HUMAN FIBROBLAST CELLS ARE TESTED FOR:

• Cell Count	500,000 cryopreserved cells per vial
• Proliferation and Morphology	Normal cell appearance for 15 population doublings
• Cell Viability	≥ 70% viability when thawed from cryopreservation
• Sterility Testing	Negative for mycoplasma Negative for bacterial and fungal growth
• Virus Testing	Negative for HIV-1, HIV-2, HBV, and HCV by PCR



Call Lifeline Technical Service and Sales at **877.845.7787**

Or visit **[lifelinecelltech.com](http://lifelinecelltech.com)** for more information

Lifeline Cell Technology | 8415 Progress Drive, Suite T | Frederick, MD 21701

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## Quality Testing for Guaranteed Consistency and Reproducible Results

Lifeline Cell Technology manufactures products using the highest quality raw materials and incorporates extensive quality assurance in every production run. Exacting standards and production procedures ensure consistent performance.

## The Lifeline® Guarantee

Lifeline's rigorous quality control ensures sterility and performance to standardized testing criteria. All donated tissues have been obtained under proper informed consent and adheres to the Declaration of Helsinki, The Human Tissue Act (UK), CFR Title 21, and HIPAA Regulations relative to obtaining and handling human tissue for Research Use. Upon request, Lifeline will provide lot specific QC test results, material safety data sheets, and certificates of analysis. See complete guarantee/warranty statement at [lifelinecelltech.com](http://lifelinecelltech.com) or contact your Lifeline representative for more information.

## Safety Statement

This product is For Research Use Only. This product is not approved for human or veterinary use, or for use in *in vitro* diagnostic or clinical procedures.

Lifeline recommends storing cryopreserved vials in liquid nitrogen vapor phase. Handle cryopreserved vials with caution. Always wear eye protection and gloves when working with cell cultures. Aseptically vent any nitrogen from cryopreserved vials in a biosafety cabinet prior to thawing the vials in a water bath. If vials must be stored in liquid phase, the vials should be transferred to vapor phase storage or -80°C for up to 24 hours prior to being thawed.

The Xeno-Free products contain human serum and should be handled as potentially infectious material. While the human serum used in this product has been tested, no known test method can guarantee the absence of Hepatitis B virus, Hepatitis C virus, HIV-1, HIV-2, or other infectious agents. All products which contain or have contacted human blood based products should be handled as Biosafety Level 2 ([cdc.gov](http://cdc.gov)) and according to the Bloodborne Pathogen Standard 29 CFR 1910.1030 and should not be recycled.

PRODUCT INFORMATION:	
Part #	Description
<a href="#">FC-0001</a>	HDFn, Human Fibroblasts-Neonatal, Primary – 500,000 cells per vial
<a href="#">FC-0024</a>	HDFa, Human Fibroblasts-Adult, Primary – 500,000 cells per vial
<a href="#">FC-0049</a>	HLF, Human Lung Fibroblasts, Secondary – 500,000 cells per vial
<a href="#">FC-0050</a>	HBf, Human Bladder Fibroblasts, Secondary – 500,000 cells per vial
<a href="#">FC-0052</a>	HVDF, Human Vas Deferens Fibroblasts, Secondary – 500,000 cells per vial
<a href="#">FC-0060</a>	HCF, Human Cardiac Fibroblasts, Secondary – 500,000 cells per vial
<a href="#">FC-0076</a>	HUtF, Human Uterine Fibroblasts, Secondary – 500,000 cells per vial
<a href="#">FC-0095</a>	HGF, Human Gingival Fibroblasts, Secondary – 500,000 cells per vial
<a href="#">FC-0098</a>	HScF, Human Scleral Fibroblasts, Secondary – 500,000 cells per vial
<a href="#">FC-0099</a>	HPrF, Normal Human Prostate Fibroblasts, Tertiary – 500,000 cells per vial
<a href="#">LL-0001</a>	FibroLife™ Serum-Free Medium Complete Kit - <i>For the culturing of Human Fibroblast Cells</i>
<a href="#">LL-0011</a>	FibroLife S2 Medium Complete Kit - <i>For the culturing of Human Fibroblast Cells</i>
<a href="#">FC-0037</a>	HDFn-XF, Human Dermal Fibroblasts-Neonatal, Xeno-Free, Primary – 500,000 cells per vial
<a href="#">LM-0013</a>	FibroLife Xeno-Free Subculturing Reagents Kit ( <i>Animal-derived components free reagents</i> )



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