

## Normal Human Skin Cell Systems and Media

Epidermal Keratinocyte Cells-Neonatal  
 Epidermal Melanocyte Cells-Neonatal  
 Dermal Fibroblast Cells-Neonatal  
 Dermal Fibroblast Cells-Neonatal, Xeno-Free

Epidermal Keratinocyte Cells-Adult  
 Epidermal Melanocyte Cells-Adult  
 Dermal Fibroblast Cells-Adult  
 Dermal Microvascular Endothelial Cells-Neonatal

Lifeline’s Normal Human Skin Cell Systems and optimized Media provide ideal culture models for your critical research of wound healing, skin cancer, burn therapy, dermatological disorders, toxicology, and the screening of cosmetics and skin care products. Additionally, our Xeno-Free Fibroblast cells can be used to establish Xeno-Free human feeder layers for stem cells.

Lifeline’s Skin Cells are cryopreserved at the end of primary or secondary culture, or at less than 4 weeks in culture, to ensure the highest viability and plating efficiency. Our Keratinocytes are cultured in serum-free DermaLife® K Medium. Our Neonatal Melanocytes are cultured in DermaLife M Medium and our Adult Melanocytes are cultured in DermaLife Ma Medium. Our Adult Fibroblasts are cultured in FibroLife® S2 Medium and our Xeno-Free Fibroblasts are cultured in FibroLife Xeno-Free Medium. Our Neonatal Fibroblasts can be cultured in either FibroLife Serum-Free Medium or FibroLife S2 Medium. Our Dermal Microvascular Endothelial Cells can be cultured in Vasculife® EnGS-Mv Medium or Vasculife VEGF-Mv Medium.

These optimized media support the growth of our skin derived cells over a period of at least 15 population doublings. Lifeline’s cells need not be exposed to PMA, Cholera Toxin, Retinoic Acid, or Phenol Red when cultured in Lifeline culture media. Our Xeno-Free cells and media are free of any animal (non-human) products.



NORMAL HUMAN SKIN 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
• Specific Staining (Microvascular Cells)	Positive for von Willebrand Factor Negative for Smooth Muscle α-Actin

To place an order, please visit [lifelinecelltech.com](http://lifelinecelltech.com) or call technical and customer service at 877.845.7787.

## 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. If Lifeline's products do not meet our posted performance and quality standards, we will replace them at no charge or provide a full refund. 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.

PRODUCT INFORMATION:	
Part #	Description
<a href="#">FC-0007</a>	Normal Human Epidermal Keratinocyte Cells, Neonatal, Primary - 500,000 cells per vial
<a href="#">FC-0025</a>	Normal Human Epidermal Keratinocyte Cells, Adult, Primary - 500,000 cells per vial
<a href="#">LL-0007</a>	DermaLife® K Medium Complete Kit - <i>For the culturing of Neonatal and Adult Epidermal Keratinocyte Cells</i>
<a href="#">FC-0019</a>	Normal Human Epidermal Melanocyte Cells, Neonatal, Secondary - 500,000 cells per vial
<a href="#">FC-0023</a>	Normal Human Epidermal Melanocyte Cells, Neonatal, Primary - 500,000 cells per vial
<a href="#">LL-0027</a>	DermaLife M Medium Complete Kit - <i>For the culturing of Neonatal Melanocyte Cells</i>
<a href="#">FC-0030</a>	Normal Human Epidermal Melanocyte Cells, Adult, Secondary - 500,000 cells per vial
<a href="#">LL-0039</a>	DermaLife Ma Medium Complete Kit - <i>For the culturing of Adult Melanocyte Cells</i>
<a href="#">FC-0001</a>	Normal Human Dermal Fibroblast Cells, Neonatal, Primary - 500,000 cells per vial
<a href="#">FC-0024</a>	Normal Human Dermal Fibroblast Cells, Adult, Primary - 500,000 cells per vial
<a href="#">LL-0001</a>	FibroLife® Serum Free Medium Complete Kit - <i>For the culturing of Neonatal Dermal Fibroblast Cells</i>
<a href="#">LL-0011</a>	FibroLife S2 Complete Kit - <i>For the culturing of Neonatal and Adult Dermal Fibroblast Cells</i>
<a href="#">FC-0037</a>	Normal Human Dermal Fibroblast Cells, Neonatal, Xeno-Free, Primary - 500,000 cells per vial
<a href="#">LM-0013</a>	FibroLife Xeno-Free Complete Medium, 500 mL - <i>For the culturing of Neonatal Xeno-Free Dermal Fibroblast Cells</i>
<a href="#">FC-0042</a>	Normal Human Dermal Microvascular Endothelial Cells, Neonatal - 500,000 cells per vial
<a href="#">LL-0004</a>	VascuLife® EnGS-Mv Medium Complete Kit - <i>For the culturing of Dermal Microvascular Endothelial Cells</i>
<a href="#">LL-0005</a>	VascuLife VEGF-Mv Medium Complete Kit - <i>For the culturing of Dermal Microvascular Endothelial Cells</i>

**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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