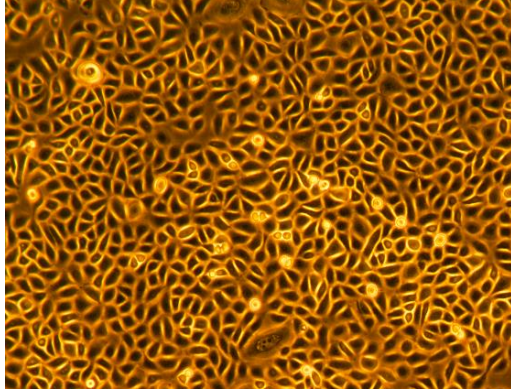


## Normal Human Epidermal Keratinocytes Specification Sheet

Human Epidermal Keratinocytes-Neonatal (HEKn)  
HEKn 10-Donor Pool

Human Epidermal Keratinocytes-Adult (HEKa)



HEKn in DermaLife K Medium 5 days after inoculation with 2,500 cells/cm<sup>2</sup> (100X)

### CELL FEATURES:

- HEKn and HEKa are cryopreserved as primary cells\*.
- HEKn 10-Donor Pool cells are cryopreserved as secondary cells\*.
- HEK provide an ideal serum-free culture model, for the study of wound healing, toxicology or epithelial biology.
- HEK are extensively tested for quality and optimal performance.
- Lifeline guarantees performance and quality.

### NORMAL HUMAN EPIDERMAL KERATINOCYTES ARE TESTED FOR:

• Cell Count	500,000 cryopreserved cells per vial
• Proliferation and Morphology	Normal cell appearance for 15 population doublings
• Cell Viability	Minimum 70% viability when thawed from cryopreservation
• Sterility Testing	Negative for mycoplasma Negative for bacterial and fungal growth for 14 days
• Virus Testing	Negative for HIV-1, HIV-2, HBV, and HCV by PCR

PART NUMBER	DESCRIPTION
<a href="#">FC-0007</a>	HEKn, Normal Human Epidermal Keratinocytes-Neonatal, Primary – 500,000 cells per vial
<a href="#">FC-0025</a>	HEKa, Normal Human Epidermal Keratinocytes-Adult, Primary – 500,000 cells per vial
<a href="#">FC-0064</a>	HEKn 10-Donor Pool, Normal Human Epidermal Keratinocytes-Neonatal, Secondary – 500,000 cells per vial
<a href="#">LL-0007</a>	DermaLife® K Medium Complete Kit (DermaLife Basal Medium (LM-0004), DermaLife K LifeFactors® Kit (LS-1030))
<a href="#">LL-0029</a>	DermaLife K Calcium-Free Medium Complete Kit (DermaLife Calcium-Free Basal Medium (LM-0008), DermaLife K LifeFactors Kit (LS-1030), 0.14M Calcium Chloride (LS-1087))
<a href="#">LS-1104</a>	GA Antimicrobial Supplement, 0.5 mL (Gentamicin 30 mg/mL, Amphotericin B 15 µg/mL); provided with purchase of LL-0007 or LL-0029

*\*Lifeline Technical Note: There are different and often contradictory terminologies used by cell culture companies to define the passage number of cells. Lifeline's designation of 'primary cells' are cells that have been isolated from tissue, plated onto culture vessels, expanded, harvested and cryopreserved. The term 'secondary' indicates that the cells have been isolated, plated and expanded in culture vessels twice before being harvested for cryopreservation.*

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

## Lifeline's Normal Human Epidermal Keratinocytes

Lifeline's Normal Human Epidermal Keratinocytes (HEK), when grown in Lifeline's DermaLife® K Medium, provides an ideal serum-free culture model, for the study of wound healing, toxicology or epithelial biology.

Lifeline's HEKn and HEKa are cryopreserved as primary cells\* to ensure the highest viability and plating efficiency. Lifeline's HEKn 10-Donor Pool are cryopreserved as secondary cells\* to ensure the highest viability and plating efficiency. Our HEK are quality tested in DermaLife K Medium to ensure proper growth and morphology over a period of at least 15 population doublings.

Lifeline's HEK are not exposed to antimicrobials or phenol red when cultured in the respective Lifeline® medium. Lifeline offers antimicrobials and phenol red; however they are not required for eukaryotic cell proliferation. A vial of Gentamicin and Amphotericin B (GA; LS-1104) is provided with the purchase of DermaLife K (LL-0007), or DermaLife K Calcium-Free (LL-0029) Medium Complete Kits for your convenience. The use of GA is recommended to inhibit potential fungal or bacterial contamination of eukaryotic cell cultures. Phenol Red (LS-1009) may be purchased, but is not required.

## 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. 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.

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.

## 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* diagnostics 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 liquid nitrogen from cryopreserved vials by carefully loosening the vial cap 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.

**Call Lifeline Technical Service and Sales at 877.845.7787**  
or visit [lifelinecelltech.com](http://lifelinecelltech.com) for more information

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