

Lifeline Cell Technology Certificate of Analysis

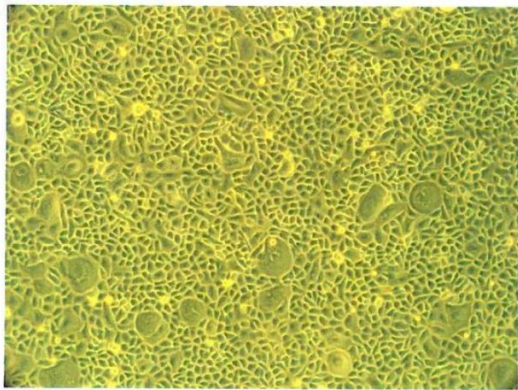
**Product Name:** Normal Adult Epidermal Keratinocytes (HEK)  
**Catalog Number:** FC-0025  
**Product Description:** Cryopreserved human epidermal keratinocytes derived from adult skin. Vials contain 500,000 cells in one ml cryopreservation solution.  
**Product Lot Number:** 03762  
**Manufacture Date:** FEB2014  
**Expiration Date:** Not applicable when stored below -150° C

**Product Information**

Donor Demographics: ..... Sex: Female Tissue Source: Abdomen Age: 45 years  
 Race: African American Cause of Death: N/A  
 Recommended Culture Medium:..... DermaLife® basal medium, LM-0004 supplemented with:  
 DermaLife LifeFactors® Kit, LS-1030

Test	Specifications	Results
Sterility Test, bacteria and yeast	negative	negative
Sterility Test, mycoplasma	negative	negative
PCR virus testing:		
Hepatitis B	negative	negative
Hepatitis C	negative	negative
HIV-1 & HIV-2	negative	negative
Viable Cell Count:	≥500,000 cells/ml	1,375,000 cells/ml
Viability (by Trypan Blue Exclusion):	>70% viable	83% viable
Cell Growth in DermaLife		
Population Doubling capacity	>15 doublings	17.32 doublings
Cell morphology	normal	normal

Picture of P<sub>2</sub> HEK lot# 03762 cultured in DermaLife K Growth Medium, day 7 in culture from an inoculation of 2,500 cells/cm<sup>2</sup>.



Quality Control Jeremy Hammond April 9, 2014

Jeremy Hammond, QC Director Lifeline Cell Technology

To place an order call Lifeline technical and customer service at (877) 845-7787 or you may submit an order form by fax to (443) 393-0393. Order form available on line at [www.lifelinecelltech.com/order](http://www.lifelinecelltech.com/order).