

## Lifeline Cell Technology Certificate of Analysis

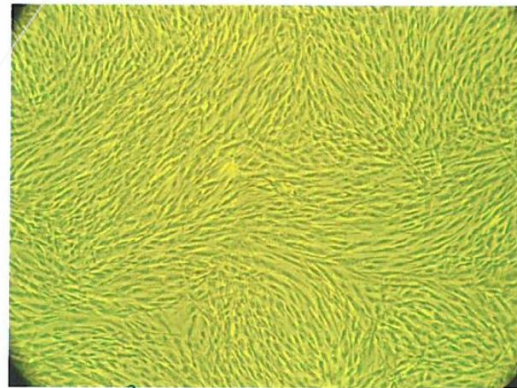
**Product Name:** Adult Human Dermal Fibroblasts (HDF)  
**Catalog Number:** FC-0024  
**Product Description:** Cryopreserved human dermal fibroblasts derived from adult skin. Adult fibroblasts are cryopreserved in P1, after isolation from tissue cells are cultured for one passage and then cryopreserved. Vials contain 500,000 cells in one ml cryopreservation solution.  
**Product Lot Number:** 04057  
**Manufacture Date:** JUN2014  
**Expiration Date:** Not applicable when stored at or below -150° C

### Product Information

Donor Demographics: .....Sex: Female Tissue Source: Abdominal Skin Age: 31 years  
 Race: African American Cause of Death: Head Trauma, GSW  
 Recommended Culture Medium:.....FibroLife, LM-0001 supplemented with:  
 Serum Free FibroLife® LifeFactors® Kit, LS-1010 -or-  
 FibroLife S2 LifeFactors Kit, LS-1010, with 2% FBS

Test	Specifications	Results
Sterility Test, bacteria, yeast and fungi	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	1,440,000 cells/ml
Viability (by Trypan Blue Exclusion):	>70% viable	91.1 % viable
Cell Growth FibroLife Serum Free Medium		
Population Doubling capacity	report result	16.02 p.d.
Cell morphology	normal	pass

Picture of P<sub>4</sub> HDF lot# 04057 cultured in Serum Free FibroLife Growth Medium, day 5 in culture from an inoculation of 2,500 cells/cm<sup>2</sup>.



Quality Control: \_\_\_\_\_

Jeremy Hammond

October 30, 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).*