

Lifeline Cell Technology Certificate of Analysis

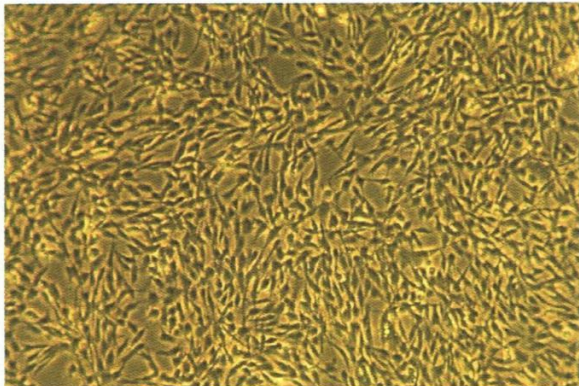
Product Name: neonatal Dermal Fibroblasts, Xeno-free
Catalog Number: FC-0037
Product Description: Cryopreserved human dermal fibroblasts derived from neonatal skin isolated and expanded with animal free reagents and media. Vials contain 500,000 cells per ml.
Product Lot Number: 00948
Manufacture Date: OCT2009
Expiration Date: Not applicable when stored at or below -150° C

Product Information

Donor Demographics: Sex: Male Tissue Source: Foreskin Age: Neonatal
 Race: Caucasian
 Recommended Culture Medium: Xeno Free FibroLife Complete Medium, LM-0013 or LM-0018.

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 cells/ml	1,042,500 cells/ml
Viability (by Trypan Blue Exclusion):	>50% viable	95% viable
Cell Growth in Xeno Free FibroLife		
Population Doubling capacity	>15 doublings	18.06 doublings
Cell morphology	normal	normal

Picture of P₃ HDF XF lot# 00948 cultured in FibroLife serum free medium, day 6 in culture from an inoculation of 2,000 cells/cm².



Quality Control: Jeremy Hammond July 26, 2010

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 (301) 845-2405. Order form available on line at www.lifelinecelltech.com/order.