

Lifeline Cell Technology Certificate of Analysis

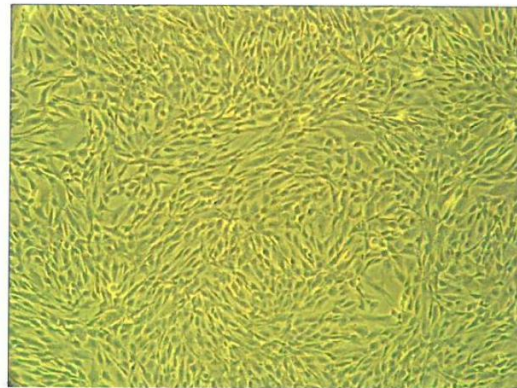
Product Name: Human Cardiac Fibroblasts
Catalog Number: FC-0060
Product Description: Cryopreserved human cardiac fibroblasts. Cardiac Fibroblasts are cryopreserved in P2, after isolation from tissue cells are cultured for two passages and then cryopreserved. Vials contain 500,000 cells in one ml cryopreservation solution.
Product Lot Number: 06558
Manufacture Date: NOV2017
Expiration Date: Not applicable when stored at or below -150° C

Product Information

Donor Demographics: Sex: Male Tissue Source: Heart Age: 17 years
 Race: Asian Cause of Death: CA
 Recommended Culture Medium: FibroLife, LM-0001 supplemented with:
 Low serum FibroLife S2 LifeFactors Kit, LS-1038

Test	Specifications	Results
Sterility (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	693,750 cells/ml
Viability (by Trypan Blue Exclusion):	>70% viable	92.0% viable
Cell Growth in DermaLife		
Population Doubling capacity	>15 doublings	16.78 doublings
Cell morphology	normal	normal

Picture of P₅ Cardiac Fibroblasts lot# 06558 cultured in FibroLife S2 growth medium, day 5 in culture from an inoculation of 2,500 cells/cm².



Quality Control: Jeremy Hammond November 28, 2017

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.