

Lifeline Cell Technology Certificate of Analysis

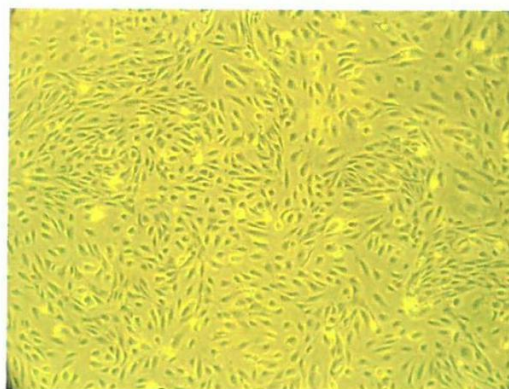
Product Name: Human Coronary Artery Endothelial Cells
Catalog Number: FC-0032
Product Description: Cryopreserved human coronary artery endothelial cells (cryopreserved after three passages in culture). Vials contain 500,000 cells in one ml cryopreservation solution.
Product Lot Number: 03087
Manufacture Date: MAR2013
Expiration Date: Not applicable when stored at or below -150° C

Product Information

Donor Demographics:Sex: Female Tissue Source: Coronary Artery Age: 41 years
 Race: Hispanic Cause of Death: CVA (ICH-Stroke)
 Recommended Culture Medium:.....VascuLife, LM-0002 supplemented with:
 LifeFactor™ Kit, LS-1029 or LifeFactor™ Kit, LS-1035

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	negative	negative
Viable Cell Count	≥500,000	837,500 cells/ml
Viability (by Trypan Blue Exclusion)	>70% viable	88.7% viable
Cell Growth in VascuLife		
Population Doubling capacity	>15 doublings	15.69 doublings
Cell morphology	normal	normal
Characterization		
Smooth muscle α-actin	negative	negative
Factor VIII	positive	positive

Picture of P₅ Coronary Artery Endothelial Cells lot# 03087 cultured in VascuLife EnGS-MV medium, day 5 in culture from an inoculation of 2,500 cells/cm².



Quality Control _____

Jeremy Hammond

December 17, 2013

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.