

Lifeline Cell Technology Certificate of Analysis

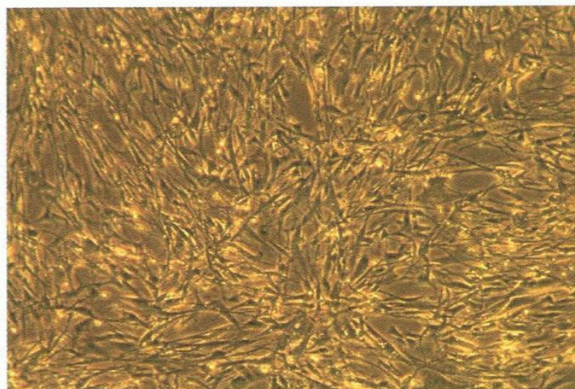
Product Name: Human Pulmonary Artery Smooth Muscle Cells
Catalog Number: FC-0056
Product Description: Cryopreserved human smooth muscle cells derived from pulmonary artery. Vials contain 500,000 cells in one ml cryopreservation solution.
Product Lot Number: 01346
Manufacture Date: JUN2010
Expiration Date: Not applicable when stored at or below -150° C

Product Information

Donor Demographics: Sex: Female Tissue Source: Pulmonary Artery Age: 39 years
 Race: Caucasian Cause of Death: ICH-Stroke
 Recommended Culture Medium: VascuLife[®], LM-0002 supplemented with:
 VascuLife SMC LifeFactors[®] Kit, LS-1040

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& 2	negative	negative
Viable Cell Count:	≥500,000 cells/ml	550,000 cells/ml
Viability (by Trypan Blue Exclusion):	>50% viable	98% viable
Cell Growth in DermaLife		
Population Doubling capacity	>15 doublings	17.78 doublings
Cell morphology	normal	normal

Picture of P₅ Pulmonary Artery Smooth Muscle Cells lot# 01346 cultured in VascuLife SMC growth medium, day 3 in culture from an inoculation of 2,500 cells/cm².



Quality Control Jeremy Hammond November 17, 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.