

Lifeline Cell Technology Certificate of Analysis

Product Name:

Human Cardiac Microvascular Endothelial Cells

Catalog Number:

FC-0053

Product Description:

Cryopreserved human cardiac microvascular endothelial cells.

Vials contain 500,000 cells in one ml cryopreservation solution.

Product Lot Number:

05622

Manufacture Date:

AUG2016

Expiration Date:

Not applicable when stored at or below -150° C

Product Information

Donor Demographics:Sex: Female Tissue Source: Heart Age: 32 years

Race: Caucasian

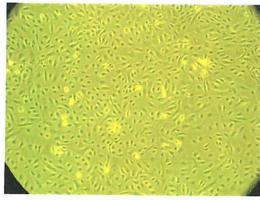
Cause of death: Anoxia

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:	Control Control Control	B
Hepatitis B	negative	negative
Hepatitis C	negative	negative
HIV-1 and HIV-2	negative	negative
Viable Cell Count	≥500,000 cells/ml	652,000 cells/ml
Viability (by Trypan Blue Exclusion)	>70% viable	87.9% viable
Cell Growth in VascuLife EnGS-MV		oris is viable
Population Doubling capacity	report result.	11.44 doublings
Cell morphology	normal	normal
Characterization		
Smooth muscle \alpha-actin	negative	negative
von Willebrand Factor	positive	positive

Picture of P₄ Cardiac Microvascular Endothelial Cells lot# 05622 cultured in VascuLife EnGS Mv medium, day 5 in culture from an inoculation of 5,000 cells/cm².



Quality Control:

December 13, 2016

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.