

Lifeline Cell Technology Certificate of Analysis

Product Name:

Human Pulmonary Artery Endothelial Cells (HPAEC)

Catalog Number:

FC-0055

Product Description:

Cryopreserved human pulmonary artery endothelial cells.

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

Product Lot Number:

03030

Manufacture Date:

FEB2013

Expiration Date:

Not applicable when stored at or below -150° C

Product Information

Race: Caucasian

Cause of Death: BFT

Recommended Culture Medium:......VascuLife, LM-0002 supplemented with:

LifeFactor™ Kit, LS-1019 or LifeFactor™ Kit, LS-1020

| Test | Specifications | Results |
|---|--|------------------|
| Sterility Test, bacteria, yeast and fungi | negative | negative |
| Sterility Test, mycoplasma | negative | negative |
| PCR virus testing: | 3 | negative |
| Hepatitis B | negative | negative |
| Hepatitis C | negative | negative |
| HIV-1 | negative | negative |
| Viable Cell Count | ≥500.000 | 775,500 cells/ml |
| Viability (by Trypan Blue Exclusion) | >50% viable | 85% viable |
| Cell Growth in VascuLife | | 03 % Viable |
| Population Doubling capacity | >15 doublings | 15.72 doublings |
| Cell morphology | normal | normal |
| Characterization | MOTHER! | normai |
| Smooth muscle α-actin | negative | negative |
| Factor VIII | positive | positive |
| | Part of the same o | positive |

Picture of P₃ HPAEC lot# 03030 cultured in VascuLife EnGS medium, day 6 in culture from an inoculation of 2,500 cells/cm².



April 22, 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.