

Lifeline Cell Technology Certificate of Analysis

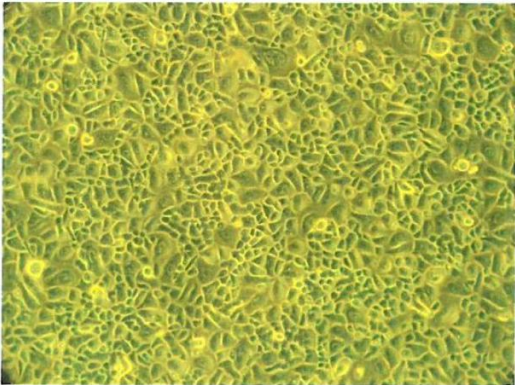
**Product Name:** Bronchial/Tracheal Epithelial Cells  
**Catalog Number:** FC-0035  
**Product Description:** Cryopreserved human bronchial/Tracheal epithelial cells. Vials contain 500,000 cells in one ml cryopreservation solution.  
**Product Lot Number:** 03712  
**Manufacture Date:** JAN2014  
**Expiration Date:** Not applicable when stored at or below -150° C

**Product Information**

Donor Demographics: ..... Sex: Female Tissue Source: Trachea/Lung Age: 44 years  
 Race: African American Cause of Death: CVA/ICH  
 \* note: Donor was a smoker.  
 Recommended Culture Medium:..... BronchiaLife Basal Medium, LM-0007supplemented with BronchiaLife B/T LifeFactors Kit, LS-1047.

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 and HIV-2	negative	negative
Viable Cell Count:	≥500,000 cells/ml	831,250 cells/ml
Viability (by Trypan Blue Exclusion):	>70% viable	86.9% viable
Cell Growth:		
Population Doubling capacity	>15 doublings	18.63 doublings
Cell morphology	normal	normal

Picture of P<sub>4</sub> Bronchial/Tracheal Epithelial Cells lot 03712 cultured in BronchiaLife B/T Growth Medium, day 6 in culture from an inoculation of 5,000 cells/cm<sup>2</sup>.



Quality Control Jeremy Hammond April 28, 2014

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](http://www.lifelinecelltech.com/order).