

Lifeline Cell Technology Certificate of Analysis

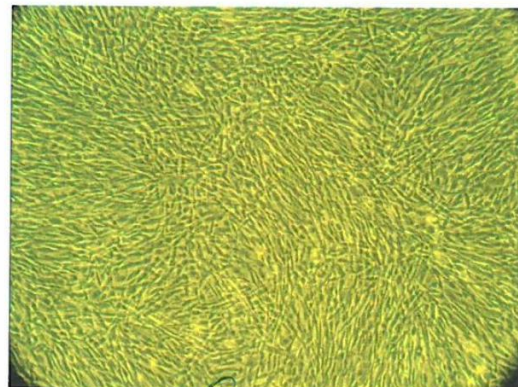
Product Name: Human Bladder Fibroblasts
Catalog Number: FC-0050
Product Description: Cryopreserved human bladder fibroblasts. Bladder Fibroblasts are cryopreserved in P2, after isolation from tissue cells are cultured for two passages and then cryopreserved. Vials contain 500,000 cells in one ml cryopreservation solution.
Product Lot Number: 01311
Manufacture Date: MAY2010
Expiration Date: Not applicable when stored at or below -150° C

Product Information

Donor Demographics:Sex: Male Tissue Source: Bladder Age: 20 years
 Race: Caucasian Cause of Death: Head Trauma/MVA
 Recommended Culture Medium:.....FibroLife, LM-0001 supplemented with:
 Low serum FibroLife S2 LifeFactors Kit, LS-1038

Test	Specifications	Results
Sterility (bacteria, yeast and fungi)	negative	negative
Sterility Test, mycoplasma	negative	negative
PCR virus testing:		
Hepatitis B	negative	negative
Hepatitis C	negative	negative
HIV-1 & HIV-2	negative	negative
Viable Cell Count:	≥500,000 cells/ml	950,000 cells/ml
Viability (by Trypan Blue Exclusion):	>70% viable	87% viable
Cell Growth in DermaLife		
Population Doubling capacity	>15 doublings	15.04 doublings
Cell morphology	normal	normal
Characterization		
Smooth muscle α-actin	negative	negative
Von Willebrand Factor	negative	negative

Picture of P₃ Bladder Fibroblasts lot# 01311 cultured in FibroLife S2 growth medium, day 5 in culture from an inoculation of 2,500 cells/cm².



Quality Control _____

Jeremy Hammond

June 17, 2014

Jeremy Hammond, C 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.