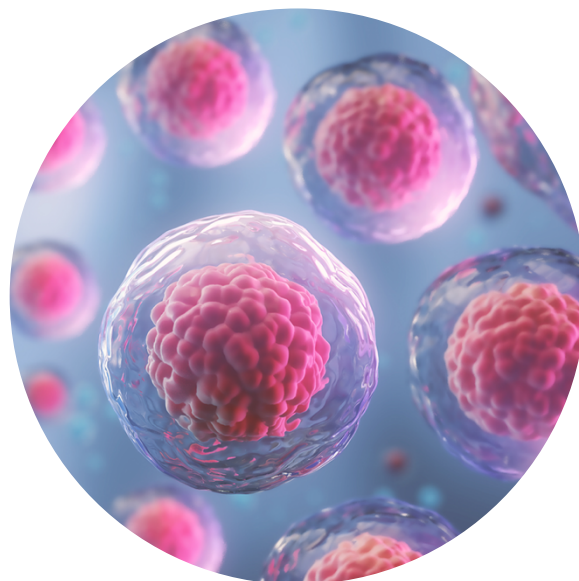


Normal Human Smooth Muscle Cells (HSMC)

FC-0015 FC-0059
FC-0031 FC-0075
FC-0043 FC-0100
FC-0046
FC-0056



This product is for Research Use Only.
This product is not approved for human or
veterinary use or for use in in vitro
diagnostics or clinical procedures.



LIFELINE[®]
CELL TECHNOLOGY

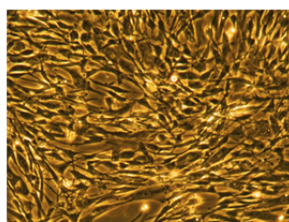
Better Solutions for
Breakthrough Results

FC-0015
FC-0031
FC-0043
FC-0046

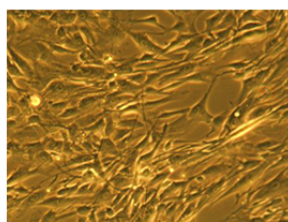
FC-0056
FC-0059
FC-0075
FC-0100



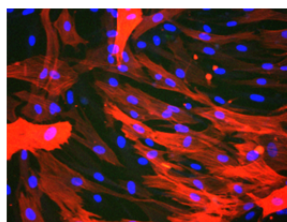
Human Aortic Smooth Muscle Cells (HAoSMC)	Human Lung Smooth Muscle Cells (HLSMC)
Human Bladder Smooth Muscle Cells (HBSMC)	Human Pulmonary Artery Smooth Muscle Cells (HPASMC)
Human Bronchial/Tracheal Smooth Muscle Cells (HBTSMC)	Human Prostate Smooth Muscle Cells (HPrSMC)
Human Coronary Artery Smooth Muscle Cells (HCASMC)	Human Uterine Smooth Muscle Cells (HUtSMC)



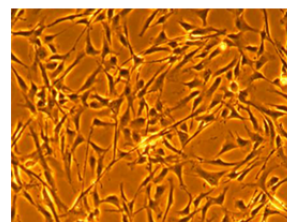
1



2



3



4

Smooth muscle cells (100X):

1) HAoSMC

2) HPASMC

3) Lung SMC immunostained for smooth muscle α -actin (red), nuclei stained with Hoechst (blue) (200X)

4) HCASMC

CELL FEATURES:	ISOLATED FROM:	CRYOPRESERVED AT THE END OF:
• HAoSMC	• Human aorta	• Secondary Culture*
• HBSMC	• Human (urinary) bladder	• Secondary Culture*
• HBTSMC	• Human bronchi and trachea	• Secondary Culture*
• HCASMC	• Human coronary arteries	• Secondary Culture*
• HLSMC	• Human lung	• Secondary Culture*
• HPASMC	• Human pulmonary artery	• Secondary Culture*
• HPrSMC	• Human prostate	• Tertiary Culture*
• HUtSMC	• Human uterus	• Secondary Culture*
• HSMC are extensively tested to meet quality standards and exhibit optimal performance.		
• Lifeline guarantees performance and quality.		

NORMAL HUMAN SMOOTH MUSCLE CELLS ARE TESTED FOR:	
• Cell Count	500,000 cryopreserved cells per vial
• Proliferation and Morphology	Normal cell appearance for 15 population doublings
• Cell Viability	Minimum 70% viability when thawed from cryopreservation
• Sterility	Negative for mycoplasma, bacterial and fungal growth
• Virus	Negative for HIV-1, HIV-2, HBV, and HCV by PCR
• Specific Staining	von Willebrand Factor negative Smooth muscle α -actin positive after differentiation



Call Lifeline Technical Service and Sales at **877.845.7787**

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PART NUMBER	DESCRIPTION
FC-0015	HAoSMC, Normal Human Aortic Smooth Muscle Cells, Secondary – 500,000 cells per vial
FC-0031	HCASMC, Human Coronary Artery Smooth Muscle Cells, Secondary – 500,000 cells per vial
FC-0043	HBSMC, Human Bladder Smooth Muscle Cells, Secondary – 500,000 cells per vial
FC-0046	HLSMC, Human Lung Smooth Muscle Cells, Secondary – 500,000 cells per vial
FC-0056	HPASMC, Human Pulmonary Artery Smooth Muscle Cells, Secondary – 500,000 cells per vial
FC-0059	HBTSMC, Human Bronchial/Tracheal Smooth Muscle Cells, Secondary – 500,000 cells per vial
FC-0075	HUtSMC, Human Uterine Smooth Muscle Cells, Secondary – 500,000 cells per vial
FC-0100	HPrSMC, Human Prostate Smooth Muscle Cells, Tertiary – 500,000 cells per vial
LL-0014	VascuLife® SMC Complete Kit (VascuLife Basal Medium, VascuLife SMC LifeFactors™ Kit)
LS-1104	GA Antimicrobial Supplement, 0.5 mL (Gentamicin 30 mg/mL, Amphotericin B 15 µg/mL); provided with purchase of LL-0014

Lifeline's Normal Human Smooth Muscle Cells

Lifeline's Normal Human Smooth Muscle Cells (HSMC), when grown in Lifeline's VascuLife® SMC Medium, provide an ideal low serum (5%) culture model for the study of angiogenesis, atherosclerosis, diabetes or vascular, pulmonary, or uterine biology.

Lifeline's HSMC are cryopreserved at the earliest possible passage to ensure the highest viability, purity, and plating efficiency. Our HSMC are quality tested in VascuLife SMC Medium and demonstrate optimal low serum growth over a period of at least 15 population doublings at rates equal to or greater than other serum-supplemented media.

Lifeline's HSMC are not exposed to antimicrobials or phenol red when cultured in the respective Lifeline® medium. Lifeline offers antimicrobials and phenol red; however they are not required for eukaryotic cell proliferation. A vial of Gentamicin and Amphotericin B (GA; LS-1104) is provided with the purchase of VascuLife SMC Medium Complete Kit (LL-0014) for your convenience. The use of GA is recommended to inhibit potential fungal or bacterial contamination of eukaryotic cell cultures. Phenol Red (LS-1009) may be purchased, but is not required.

Quality Testing for Guaranteed Consistency and Reproducible Results

Lifeline Cell Technology manufactures products using the highest quality raw materials and incorporates extensive quality assurance in every production run. Exacting standards and production procedures ensure consistent performance.



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The Lifeline Guarantee

Lifeline's rigorous quality control ensures sterility and performance to standardized testing criteria. Upon request, Lifeline will provide lot specific QC test results, material safety data sheets, and certificates of analysis. See complete guarantee/warranty statement at lifelinecelltech.com or contact your Lifeline representative for more information.

All donated tissues have been obtained under proper informed consent and adheres to the Declaration of Helsinki, The Human Tissue Act (UK), CFR Title 21, and HIPAA Regulations relative to obtaining and handling human tissue for Research Use.

Safety Statement

Lifeline recommends storing cryopreserved vials in liquid nitrogen vapor phase. Handle cryopreserved vials with caution. Always wear eye protection and gloves when working with cell cultures. Aseptically vent any liquid nitrogen from cryopreserved vials by carefully loosening the vial cap in a biosafety cabinet prior to thawing the vials in a water bath. If vials must be stored in liquid phase, the vials should be transferred to vapor phase storage or -80°C for up to 24 hours prior to being thawed.

**Lifeline Technical Note: There are different and often contradictory terminologies used by cell culture companies to define the passage number of cells. Lifeline's designation of 'primary cells' are cells that have been isolated from tissue, plated onto culture vessels, expanded, harvested and cryopreserved. The term 'secondary' indicates that the cells have been isolated, plated and expanded in culture vessels twice before being harvested for cryopreservation.*



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