Certificate of Analysis



Human Pulmonary Microvascular Endothelial Cells (HPMEC)

Description	
Product Name	HPMEC-c / HPMEC-p
Order Number	C-12281 / C-12282
Lot Number	1062901
Donor Age / Sex / Race	63 / male /caucasian
Tissue / Localization	lung / peripheral tissue
Number of Viable Cells	900.000
Freezing Medium	Cryo-SFM (Order No.: C-29910)
QC Evaluation Medium	Endothelial Cell Growth Medium MV (Order No.: C-22020)
Stage of Culture	HPMEC-c: thawing and seeding results in passage 2 (3 rd culture) HPMEC-p: shipped in passage 2 (3 rd culture)

Viability & Growth Characteristics

Viability	83 % * (adherence of cells could vary under customer culture conditions)
Population Doubling (PD) Time in Log Phase	43.3 h / PD *
Population Doublings	> 15 *

Phenotypic Characterization (tested within the first two passages)

CD31	positive by immunohistochemical staining
vWF / Factor VIII-related antigen	positive by immunohistochemical staining
Dil-Ac-LDL uptake	positive by immunohistochemical staining
Smooth muscle α-actin	negative by immunohistochemical staining

Test for Microbial Contaminants and Infectious Viruses

Bacteria / Fungi / Mycoplasma	negative / negative
HIV-1	negative
HBV / HCV	negative / negative

^{*} Using PromoCell's standardized culture system and procedures. The stated values may vary under customer culture conditions.

The tissue used by PromoCell for the isolation of human cell cultures is derived from donors who have signed an informed consent form, which outlines in detail the purpose of the donation and the procedure for processing the tissue (www.promocell.com/ethics).



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