

Certificate of Analysis

Human Dermal Microvascular Endothelial Cells (HDMEC), adult

Description

Product Name	HDMEC-c adult / HDMEC-p adult
Order Number	C-12212 / C-12262
Lot Number	9110304
Donor Age / Sex / Race	64 / female / caucasian
Tissue / Localization	skin / breast
Number of Viable Cells	550.000
Freezing Medium	Cryo-SFM (Order No.: C-29910)
QC Evaluation Medium	Endothelial Cell Growth Medium MV (Order No.: C-22020)
Stage of Culture	HDMEC-c: thawing and seeding results in passage 2 (3 rd culture) HDMEC-p: shipped in passage 2 (3 rd culture)

Viability & Growth Characteristics

Viability	92 % * (adherence of cells could vary under customer culture conditions)
Population Doubling (PD) Time in Log Phase	28.0 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 / 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).



A handwritten signature in blue ink, appearing to read "S. Busch".

Silke Busch, Ph.D.
Quality Control Manager

Date: 17 Dec 2009

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