

Certificate of Analysis

Human Dermal Lymphatic Endothelial Cells (HDLEC), adult

Description

Product Name	HDLEC-c adult / HDLEC-p adult
Order Number	C-12217 / C-12219
Lot Number	8022602.1
Donor Age / Sex / Race	45 / female / caucasian
Tissue / Localization	skin / breast
Number of Viable Cells	500.000
Freezing Medium	Cryo-SFM (Order No.: C-29910)
QC Evaluation Medium	Endothelial Cell Growth Medium MV 2 (Order No.: C-22022)
Stage of Culture	HDLEC-c: thawing and seeding results in passage 2 (3 rd culture) HDLEC-p: shipped in passage 2 (3 rd culture)

Viability & Growth Characteristics

Viability	96 % * (adherence of cells could vary under customer culture conditions)
Population Doubling (PD) Time in Log Phase	29.6 h / PD *
Population Doublings	> 15 *

Phenotypic Characterization

Prox 1	positive by immunohistochemical staining
LYVE-1	positive by immunohistochemical staining
Smooth muscle α -actin	negative by immunohistochemical staining
CD31	> 95 % positive by flow cytometry **
Podoplanin	> 95 % positive by flow cytometry **

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.

** Measured by Cell Lab Quanta SC™ (Beckmann Coulter Inc.).

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 that reads "S. Busch".

Silke Busch, Ph.D.
Quality Control Manager

Date: 31 July 2008

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Orders and Technical Information

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