

Certificate of Analysis

Human Dermal Lymphatic Endothelial Cells (HDLEC)

Description

Product Name	HDLEC-c / HDLEC-p
Order Number	C-12216 / C-12218
Lot Number	9120907.3
Donor Age / Sex / Race	6 / male / caucasian
Tissue / Localization	skin / foreskin
Number of Viable Cells	700.000
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	94 % * (adherence of cells could vary under customer culture conditions)
Population Doubling (PD) Time in Log Phase	22.5 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 blue ink signature of Christian Leppert.

Christian Leppert, Ph.D.
Quality Control Manager

Date: 7 May 2010

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