

# Certificate of Analysis

## Human Dermal Blood Endothelial Cells (HDBEC), adult

author: TM

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### Description

Product Name	HDBEC-c adult / HDBEC-p adult
Order Number	C-12225 / C-12226
Lot Number	2012603.3
Donor Age / Sex / Race	52 / female / caucasian
Tissue / Localisation	skin / abdomen
Number of Viable Cells	650.000
Freezing Medium	Cryo-SFM (Order No.: C-29910)
QC Evaluation Medium	Endothelial Cell Growth Medium MV (Order No.: C-22020)
Stage of Culture	HDBEC-c: thawing and seeding results in passage 2 (3 <sup>rd</sup> culture) HDBEC-p: shipped in passage 2 (3 <sup>rd</sup> culture)

### Viability & Growth Characteristics

Parameter / Test method*	Result
Viability / ISO 13319	84 %
Population Doubling (PD) Time in Log Phase / PDL Test	23.7 h / PD
Population Doublings	> 15 PD*

### Phenotypic Characterization (tested within the first two passages)

Parameter / Test method*	Result
Immunohistochemical staining	negative for Smooth muscle $\alpha$ -actin
Immunohistochemical staining	positive for CD31
Immunohistochemical staining	negative for Podoplanin

### Test for microbiological contaminants and infectious viruses

This lot is found to be nonreactive to following contaminations by qualified test methods:

Parameter / Test method	Result
Bacteria, Fungi / Direct Planting	negative / negative
Mycoplasma Genus, M. Pulmonis / PCR	negative / negative
HIV-1, HIV-2 / PCR	negative / negative
HBV, HCV / PCR	negative / negative
HTLV-1, HTLV-2 / PCR	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](http://www.promocell.com/ethics)).



A blue ink signature of Dr. Timothy Meyer.

Dr. Timothy Meyer  
Head of Quality Control

Date: Apr 3, 2012

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