

# Certificate of Analysis

## Human Villous Mesenchymal Fibroblasts (HVMF)

### Description

Product Name	HVMF-c / HVMF-p
Order Number	C-12390 / C-12391
Lot Number	6091203.3
Donor Age / Sex / Race	newborn / male / caucasian
Tissue / Localization	placenta / villous tissue
Number of Viable Cells	600.000
Freezing Medium	Cryo-SFM (Order No.: C-29910)
QC Evaluation Medium	Fibroblast Growth Medium 2 (Order No.: C-23020)
Stage of Culture	HVMF-c: thawing and seeding results in passage 2 (3 <sup>rd</sup> culture) HVMF-p: shipped in passage 2 (3 <sup>rd</sup> culture)

### Viability & Growth Characteristics

Viability	89 % * (adherence of cells could vary under customer culture conditions)
Population Doubling (PD) Time in Log Phase	32.6 h / PD *
Population Doublings	> 15 *

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

Fibroblast-specific surface antigen | positive 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](http://www.promocell.com/ethics)).



A handwritten signature in blue ink that reads "S. Busch".

Silke Busch, Ph.D.  
Quality Control Manager

Date: 2 July 2008

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