

Certificate of Analysis

Human Cardiac Myocytes (HCM)

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Description

Product Name	HCM-c / HCM-p
Order Number	C-12810 / C-12811
Lot Number	1051601.8
Donor Age / Sex / Race	48 / male / caucasian
Tissue / Localisation	heart muscle / ventricle
Number of Viable Cells	500.000
Freezing Medium	Cryo-SFM (Order No.: C-29910)
QC Evaluation Medium	Myocyte Growth Medium (Order No.: C-22070)
Stage of Culture	HCM-c: thawing and seeding results in passage 2 (3 rd culture) HCM-p: shipped in passage 2 (3 rd culture)

Viability & Growth Characteristics

Parameter / Test method*	Result
Viability / ISO 13319	81 %
Population Doubling (PD) Time in Log Phase / PDL Test	35.6 h / PD
Population Doublings	> 15 PD*

Phenotypic Characterization (tested within the first two passages)

Parameter / Test method*	Result
Immunohistochemical staining	positive for Sarcomeric α -actinin
Immunohistochemical staining	positive for Slow muscle myosin
Immunohistochemical staining	negative for CD90

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 Plating	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).



A handwritten signature in blue ink, appearing to read "Timothy Meyer".

Dr. Timothy Meyer
Head of Quality Control

Date: Feb 27, 2012

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