

Certificate of Analysis

Human Osteoblasts (HOB)

Description

Product Name	HOB-c / HOB-p
Order Number	C-12720 / C-12760
Lot Number	0091301
Donor Age / Sex / Race	56 / female / caucasian
Tissue / Localization	cancellous bone / femoral head
Number of Viable Cells	600.000
Freezing Medium	Cryo-SFM (Order No.: C-29910)
QC Evaluation Medium	Osteoblast Growth Medium (Order No.: C-27001)
Stage of Culture	HOB-c: thawing and seeding results in passage 2 (3 rd culture) HOB-p: shipped in passage 2 (3 rd culture)

Viability & Growth Characteristics

Viability	92 % * (adherence of cells could vary under customer culture conditions)
Population Doubling (PD) Time in Log Phase	24.3 h / PD *
Population Doublings	> 10 *

Phenotypic Characterization (tested within the first two passages)

Alkaline phosphatase activity	positive by immunohistochemical staining
Differentiation capacity (mineralization)	pass

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).



A blue ink signature of Christian Leppert.

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Quality Control Manager

Date: 7 Apr 2011

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