

Certificate of Analysis

Human Mesenchymal Stem Cells from Adipose Tissue (hMSC-AT)

Description

Product Name	hMSC-AT-c / hMSC-AT-p
Order Number	C-12977 / C-12978
Lot Number	9061601.12
Donor Age / Sex / Race	37 / female / caucasian
Tissue / Localization	subcutaneous adipose tissue / abdomen
Number of Viable Cells	500.000
Freezing Medium	Cryo-SFM (Order No.: C-29910)
QC Evaluation Medium	MSC Growth Medium (Order No.: C-28010) MSC Adipogenic Differentiation Medium (Order No.: C-28011) MSC Chondrogenic Differentiation Medium (Order No.: C-28012) MSC Osteogenic Differentiation Medium (Order No.: C-28013)
Stage of Culture	hMSC-AT-c: thawing and seeding results in passage 2 (3 rd culture) hMSC-AT-p: shipped in passage 2 (3 rd culture)

Viability & Growth Characteristics

Viability	81 % * (adherence of cells could vary under customer culture conditions)
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Phenotypic Characterization (tested within the first two passages)

Adipogenesis / Chondrogenesis / Osteogenesis	pass / pass / pass *
Differentiation Capacity up to	> 10 Population Doublings *
CD44	> 95 % positive by flow cytometry **
CD31 / CD45	> 95 % negative by flow cytometry **

Test for microbiological 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™ (Beckman 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 handwritten signature in blue ink, appearing to read "S. Busch".

Silke Busch, Ph.D.
Quality Control Manager

Date: 18 Aug 2009

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Orders and Technical Information

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