

Certificate of Analysis

Human Tracheal Smooth Muscle Cells (HTSMC)

Description

| | |
|------------------------|--|
| Product Name | HTSMC-c / HTSMC-p |
| Order Number | C-12565 / C-12566 |
| Lot Number | 9033101.13 |
| Donor Age / Sex / Race | 28 / male / caucasian |
| Tissue / Localization | trachea / paries membranaceus |
| Number of Viable Cells | 550.000 |
| Freezing Medium | Cryo-SFM (Order No.: C-29910) |
| QC Evaluation Medium | Smooth Muscle Cell Growth Medium 2 (Order No.: C-22062) |
| Stage of Culture | HTSMC-c: thawing and seeding results in passage 2 (3 rd culture) HTSMC-p: shipped in passage 2 (3 rd culture) |

Viability & Growth Characteristics

| | |
|--|--|
| Viability | 90 % * (adherence of cells could vary under customer culture conditions) |
| Population Doubling (PD) Time in Log Phase | 17.8 h / PD * |
| Population Doublings | > 15 * |

Phenotypic Characterization (tested within the first two passages)

| | |
|-----------------------------------|--|
| Smooth muscle α -actin | positive by immunohistochemical staining |
| vWF / Factor VIII-related antigen | negative by immunohistochemical staining |
| CD90 | negative 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).



A handwritten signature in blue ink, appearing to read "S. Busch".

Silke Busch, Ph.D.
Quality Control Manager

Date: 25 Sep 2009

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