

Data Sheet

CellGenix® Human Umbilical Cord-derived Multipotent Mesenchymal Stromal Cells¹ (hUC-MSC)

Preclinical Grade – Order No.: 19401-005 (0.5 million cells)
29401-010 (1.0 million cells)

Product Characteristics

Donor age	Newborn
Tissue / localization	Umbilical cord
Freezing medium	Serum-free, containing human serum albumin (HSA) and dimethyl sulfoxide (DMSO)
Viability after thawing	≥ 80 %
Stage of culture	Thawing and seeding results in passage 2 (3rd culture)
Intended use	For preclinical <i>ex vivo</i> use. Not intended for therapeutic use.

Quality Parameters

Phenotypic properties ²	
CD73/CD90/CD105	≥ 95 % positive, determined by flow cytometry
CD34	≥ 95 % negative, determined by flow cytometry
Differentiation capacity ³	Adipogenesis, as determined by Oil Red O staining Chondrogenesis, as determined by Alcian Blue staining Osteogenesis, as determined by Alizarin Red staining
Bacteria and fungi	Negative, vial product tested for absence
Mycoplasma	Negative, as determined by Mycoplasma PCR-test
HIV-1 / HBV / HCV	Negative, as tested by PCR analyzing maternal blood

¹ Horwitz *et al.* (2005). Clarification of the nomenclature for MSC: The International Society for Cellular Therapy position statement. *Cytotherapy* Vol. 7, No.5, 393-395

² Under CellGenix standardized culture system and procedures. Values may vary under customers culture conditions.

³ Analyzed in passage 3

Shipment & Storage

Transport	Frozen (dry ice)
Storage	Store material in the vapor phase of liquid nitrogen (-130 °C or below). Storage at higher temperatures (-80 °C) may cause irreversible cell damage.

Handling Instructions

Culture	Culture in CellGenix® MSC Medium containing CellGenix® 5 ng/ml FGF-2. For thawing and culture details please refer to separate handling instructions (www.cellgenix.com).
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Quality Statement

All donor centers are traceable and located in Germany. All donors were healthy at the time of collection. All donors have been informed in detail about the purpose of the donation and have signed an informed consent.