



Information sheet

denovoCELLS are cell line products developed to enable efficient and reproducible cell expansion supporting product development and translational research. We manufacture denovoCELLS using the superior biomaterials of denovoMATRIX in combination with our long-lasting cell biology expertise. All our products are thoroughly tested to fulfill our stringent quality control standards.

HUMAN MESENCHYMAL STROMAL CELLS (hMSCs)

denovoCELLS hMSCs are isolated from healthy adult human donors using a serum-free medium in combination with isoMATRIX. denovoCELLS are expanded on myMATRIX MSC and cryopreserved at an early passage for enhanced cell performance. denovoCELLS hMSCs show greater expansion and differentiation capacities compared to hMSCs derived from fetal bovine serum-containing culture conditions. Each lot is checked for cell morphology, expansion potential, viability, and sterility. denovoCELLS hMSCs conform to ISCT minimal criteria for hMSC identity for cell surface marker expression and trilineage differentiation potential.



KEY FEATURES

- Serum-free isolation and expansion
- Fast proliferation, high clonogenic and differentiation potential
- High cell quality
- Conforming with ISCT minimal criteria for hMSC identity
- Detailed certificate of analysis (CoA) for each lot

RECOMMENDED PRODUCTS

- For optimal cell performance we recommend to thaw and expand the cells on myMATRIX MSC in TheraPEAK™ MSCGM™ Mesenchymal Stem Cell Growth Medium.

INTENDED USE

- denovoCELLS hMSCs are for in vitro research use only and not for diagnostic or therapeutic procedures.



Product specification

Product number	HBMMSC_0401XXX
Quantity	1 vial per unit
Cell number	≥0.7 Mio cryopreserved cells
Tissue source	Human bone marrow
Isolation & expansion matrix	isoMATRIX & myMATRIX MSC (denovoMATRIX)
Isolation & expansion medium	TheraPEAK™ MSCGM™ Mesenchymal Stem Cell Growth Medium (Lonza)
Population doubling level	4-6 CPD
Viability	≥ 90%
Doubling time	≤ 50 h
Virus testing	Donor material tested HIV-/HBV-/HCV-
Sterility	Negative for mycoplasma, bacteria, yeast, and fungi
Cryopreservation medium	CryoStor® CS10 (STEMCELL Technologies)

Please note: Upon arrival, cryopreserved cells should be stored below -135°C or seeded directly.

For more information about denovoCELLS and our other products, visit www.denovomatrix.com

denovoMATRIX receives support from

