

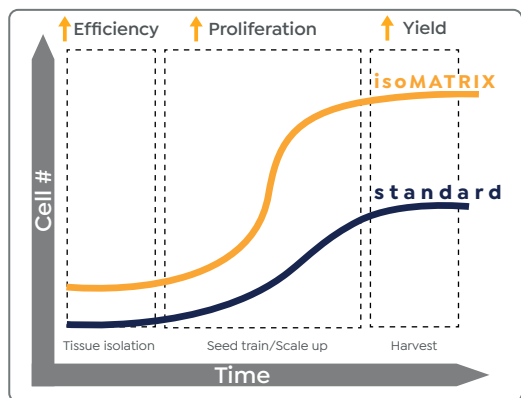


denovoMATRIX
ENABLING BIOLOGY IN VITRO

isoMATRIX
BIOMATRICES FOR CELL CULTURE

Information sheet

denovoMATRIX develops and manufactures biomatrix coatings that enable the culture of a wide variety of primary, stem cells, and established cell lines. In vivo, extracellular matrix (ECM) molecules surround individual cells with essential roles in the regulation of adhesion, differentiation, migration, phenotype, organization, and structure. Our coatings recapitulate these major functions of the natural ECM, making cell culture easy, robust, and biologically relevant.



KEY FEATURES

- Chemically defined extracellular matrix coating for isolation of human mesenchymal stromal cells (hMSCs)
- Isolate up to 35% more high-quality cells
- Animal and human component-free
- High media and tissue compatibility
- Ready-to-use in your preferred format
- No change in your isolation protocols necessary
- Combine with myMATRIX MSC and beadMATRIX for advanced MSC culture

isoMATRIX-CTG

- Did you know that myMATRIX MSC is also available in Cell Therapy Grade (CTG)?
- We provide for CTG materials:
 - ✓ Certificate of Origin (CoO) statement
 - ✓ Pharma grade quality of raw materials
 - ✓ Extended quality control & documentation



Read our peer-reviewed publication on **isoMATRIX**



Keep in touch!
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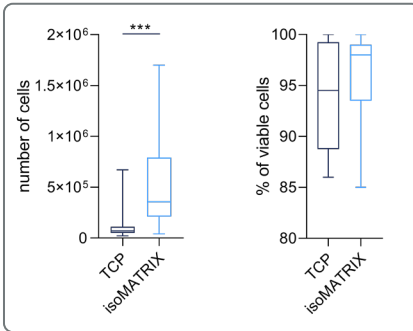
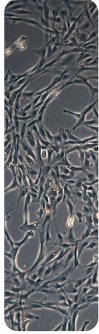


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For more information about isoMATRIX and other products, please visit www.denovomatrix.com

Large-scale production of MSCs with consistency across scales

isoMATRIX | myMATRIX MSC | beadMATRIX



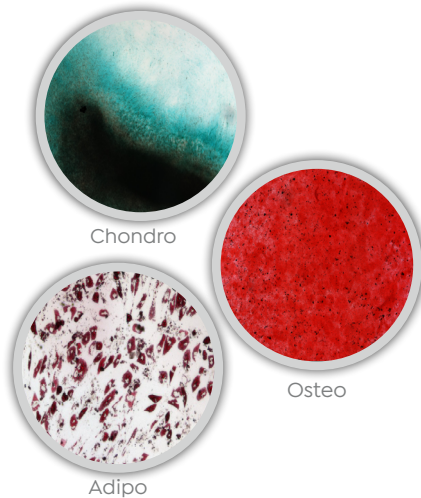
Isolation efficiency

- isoMATRIX-derived hMSCs show typical spindle-shaped, fibroblast-like morphology (left panel)
- isoMATRIX significantly increases final cell yield compared to tissue culture plastic (TCP) (middle panel)
- Isolated hMSCs show very high viability (right panel)



CFUF & CD marker

- Isolated hMSCs show significantly enhanced colony-forming efficiency
- isoMATRIX-derived hMSCs maintain their characteristic CD marker profile
 - CD73/105/90/44 ≥ 95%
 - CD34/11b/14/45 ≤ 2%



DIFFERENTIATION CAPACITY

- Fast adipogenic differentiation is visualized by Oil Red O staining of cytoplasmic lipid droplets after 7 days
- High osteogenic differentiation potential results in strong Alizarin Red staining of calcium phosphate deposits after 28 days
- Proteoglycans stained with Alcian Blue demonstrate chondrogenic differentiation after 21 days

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

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