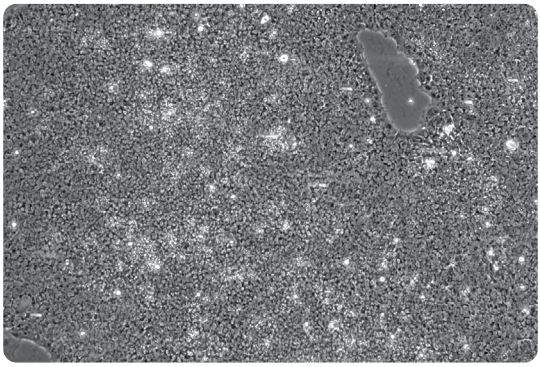
denovoMATRIX
ENABLING BIOLOGY IN VITRO

myMATRIX iPSC
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 regulation of adhesion, differentiation, migration, phenotype, organization and structure. Our myMATRIX coatings recapitulate these major functions of the natural ECM, making cell culture easy, robust, and biologically relevant.



KEY FEATURES

- Chemically defined & animal-free
- Ready-to-use and easily adaptable
- Reliable and robust performance
- Mimics microenvironment functions
- Tailored for human iPSC culture
- Strong proliferation & typical iPSC morphology
- Supporting consistent and high expression of stemness markers during long-term iPSC culture
- Preservation of pluripotency and genetic stability during long-term culture and throughout different culture methods

myMATRIX iPSC-CTG

- Did you know that our matrix for iPSCs is also available in clinical-trial grade (CTG)?
- We provide for CTG materials:
  - √ Certificate of Origin statement
  - √ Pharma grade quality of raw materials
  - √ Extended quality control & documentation

We qualified myMATRIX iPSC in long-term experiments. Read our White paper

Keep in touch!
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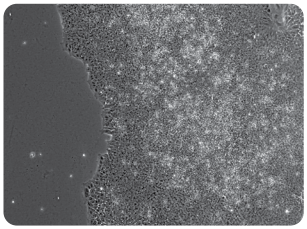
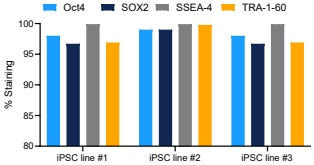
For more information about myMATRIX iPSC and other products, please visit
www.denovomatrix.com

Large-scale production of iPSCs with consistency across scales
myMATRIX iPSC I beadMATRIX+



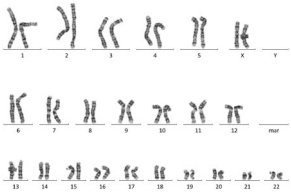
Growth

- √ iPSCs show typical colony morphology with high nuclear-to-cytoplasmic ratio
- √ iPSCs proliferate robustly and fast over 150 days in culture
- √ myMATRIX supports iPSC growth at high as well as low splitting ratios up to clonal densities



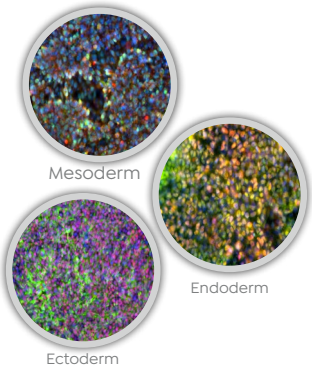
STEMNESS

- √ High expresssion of pluripotency-related genes of iPSCs cultured on myMATRIX including OCT4, Nanog and FGF2



GENETIC STABILITY

- √ iPSCs cultured on myMATRIX are genetically stable
- √ Normal, healthy karyotypes after longterm culture of 20 passages



DIFFERENTIATION CAPACITY

- √ iPSCs on myMATRIX maintain their differentiation potential and therefore form all three germ layers after long-term culture
- √ Differentiated cells (DAPI, blue) and germ layer-specific marker expression were visualized by immunostaining:
  Mesoderm – Brachyury, CXCR4
  Endoderm – GATA6, Sox17
  Ectoderm – Nestin, Pax6

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For more information about myMATRIX iPSC and our other products, visit **www.denovomatrix.com**

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ESF
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