



## MAPTrix HyGel™ Line of Products

### Chemically Well Defined Hydrogel Products for 3D Cell Culture Applications



MAPTrix HyGel™ is a recombinant mussel adhesive protein based, semi-synthetic 3D extracellular matrix that is tailored to mimic specific ECM (extracellular) properties. The MAPTrix HyGel™ hydrogel products are composed of two components: MAPTrix™ ECM, a mussel adhesive protein based extracellular matrix (ECM) mimetic; and, MAPTrix™ Linker, a multiarm polyethylene glycol derivative. Use of MAPTrix HyGel™ generates a well controlled and reproducible cellular environment for 3D cell culture and related applications. MAPTrix HyGel™ is an innovative and versatile 3D cell culture tool that addresses the unmet needs of a chemically and physically defined matrix for cell culture & related applications.

### Features & Benefits

- The *in situ* creation of a fully defined
  - 3D extracellular matrix
  - Free of animal derived components
  - Readily able to engineer the elasticity and/or pore size of the hydrogel by adjusting the concentration of MAPTrix™ ECM or MAPTrix™ Linker
- User-friendly, ready-to-use formulation for the end-user
  - All components of MAPTrix HyGel™ are stable and can be stored in a refrigerator, no deep freezing is required
  - Simply mixing each component can form a hydrogel within two hours, under physiological conditions
  - All components are soluble in most buffer solutions
  - MAPTrix HyGel™ is compatible with existing cell culture protocols
- High lot-to-lot consistency and reproducibility
  - High batch-to-batch reproducibility between samples and vials
  - QC & QA testing in accordance with USP Guidelines

The MAPTrix HyGel™ matrix can be modularly engineered for designed biochemical characteristics by use of either a single MAPTrix™ ECM product or a combination of MAPTrix™ ECM products. Kollodis currently provides many different MAPTrix™ ECM products in its expanding MAPTrix™ ECM line of products for engineering the extracellular matrix.

Kollodis BioSciences' Mussel Adhesive Protein based matrix (MAPTrix™) ECM line of products are coating reagents with genetically incorporated bioactive peptides (recognition peptides) which mimic the extracellular matrix (ECM) activity of collagen (MAPTrix™ C), fibronectin (MAPTrix™ F), laminin (MAPTrix™ L), vitronectin (MAPTrix™ V), cadherin (MAPTrix™ E), and heparin (MAPTrix™ H) proteins.

For more info, visit Kollodis BioSciences, Inc. at [www.kollodis.com](http://www.kollodis.com)



*Kollodis' MAPTrix™ products are for research use only & are not intended for diagnostic or clinical use.*