Certificate of Analysis

The Corning® PuraMatrix™ Peptide Hydrogel is a synthetic matrix that is used to create defined 3-D microenvironments for a variety of cell-based assays. Corning PuraMatrix Peptide Hydrogel consists of standard amino acids (1% W/V) and 99% water. In the presence of physiologic salt concentrations, the peptide component of Corning PuraMatrix self-assembles into a hydrogel that exhibits a nanofiber structure. The resulting hydrogel has been found to support the attachment of a variety of transformed (e.g, HEK293, NIH3T3, MG63) and primary (e.g., neuronal, fibroblast, keratinocyte) cell types[1]. Studies have also demonstrated that Corning PuraMatrix Peptide Hydrogel promotes the differentiation of Hepatocyte progenitor cells[2], rat pheochromocytoma cells (PC12)[3], and hippocampal neurons[4]. Other potential applications include tumor cell migration and invasion, angiogenesis assays, stem cell proliferation, and *in vivo* analyses of tissue regeneration.

PRODUCT:	Corning Puramatrix Peptide Hydrogel	
CATALOG NUMBER:	354250	LOT NUMBER: _____
QUANTITY:	5 ml	
USE:	See Guidelines for Use included with the product.	
QUALITY CONTROL:	Cell Viability assay (using Molecular Probes LIVE/DEAD Viability/Cytotoxicity Assay Kit) is performed on each lot to measure the ability of Corning Puramatrix Peptide Hydrogel to support healthy growth of NIH3T3 fibroblasts (>80% survival). Tested and found negative for the presence of bacteria, fungi and mycoplasma.	
STORAGE:	Stable when stored at 4-30°C.	
EXPIRATION DATE:		

REFERENCES:

1. Zhang, S et al. (1995) Biomaterials, Vol 16, pp. 1385-1393.
2. Semino, CE et al. (2003) Differentiation, Vol 71, pp. 262-270.
3. Holmes, TC et al. (2000) PNAS, Vol 97, pp. 6728-6733.
4. Semino, CE et al. (2004) Tissue Engineering, Vol 10, pp. 643-655.

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Quality Assurance **Date**

Discovery Labware, Inc., Two Oak Park, Bedford, MA 01730, Tel: 1.978.442.2200 (U.S.)
CLSTechServ@Corning.com www.corning.com/lifesciences

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For Research Use Only. Not for use in diagnostic or therapeutic procedures.