



Dextran (RGD)-based CD-Link Hydrogel Kit

Cat. No. HG001

Lot. No. (See product label)

Product Description

The Dextran (RGD)-based CD-Link Hydrogel Kit contains reagents for the preparation of hydrogels with a soft stiffness (400 Pa; shear modulus) and a RGD Peptide concentration of 0.4 mmol/L. The gel composition allows three-dimensional spreading and migration of most cells. The gel is formed by the crosslinking of modified dextran carrying the cell adhesion motif RGD (RGD-Dextran) with CD-Link. When the two reagents are combined, thiol groups on CD-Link form stable thioether bonds with thiol-reactive groups on RGD-Dextran resulting in gel formation within 20 min. The formation of hydrogel is performed at physiological pH for optimal cell compatibility. CD-Link is composed of polyethylene glycol and a matrix metalloprotease (MMP)-cleavable peptide. The MMP-cleavable peptide is designed for a broad range of MMP cleavage including MMPs MMP1, MMP3, MMP7 and MMP9. It allows cells to spread and migrate within the gel if they express the indicated MMPs. Dextran (RGD)-based CD-Link Hydrogel can be dissolved by the addition of dextranase, which allows recovery of chemically fixed or live cells for post-culture analyses (e.g. RT-PCR) or further cultivation.

Application

3-dimensional cultivation of various cell types, spheroids, tissue samples and similar requiring a cell-adhesive and cell-degradable matrix for cell growth and differentiation.

Components

RGD-Dextran, lyophilized: 2 x 870 μ L*
CD-Link, lyophilized: 200 μ L*, 20 mmol/L*
Reconstitution Buffer: 2 x 900 μ L

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

www.matexcel.com/hydrogel

Address: SUITE 210, 17 Ramsey Road, Shirley, NY 11967

Email: info@matexcel.com Tel: 1-631-869-4956 Fax: 1-631-910-2166



Water: 600 μ L

Storage/Stability

Store at -20 °C.

Note

Allows formation of 2.4 mL Dextran(RGD)-based CD-Link Hydrogel.

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