Product Data Sheet

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Product Name	*3-D Life* Dextran-HA Hydrogel

Catalog Number G95-1

Description

The *3-D Life* Dextran-HA Hydrogel Kit provides reagents for setting up hydrogels containing hyaluronic acid. Its major components are SG-Dextran and the thiol-functionalized hyaluronic acid crosslinker HyLink. When SG-Dextran and HyLink are combined, thiol groups on HyLink form stable thioether bonds with thiol-reactive groups on SG-Dextran, which results in the formation of the gel. The components are mixed at physiological pH (pH 7.2) for optimal cell compatibility. The slow gelation kinetics allows enough time to conveniently manipulate the solution before the onset of gel formation. The hydrogel allows cell spreading and migration if cell adhesion peptides are present in the gel.

Prior to the crosslinking step, cell adhesion peptides (e.g. *3-D Life* RGD Peptide, Cat. No. 09-P-001) can be covalently attached to a portion of the SH-reactive groups on SG-Dextran to provide a cell-adhesive matrix.

Dextran hydrogels can be dissolved by the addition of dextranase (*3-D Life* Dextranase, Cat. No. D10-1), which allows the recovery of chemically fixed or live cells for post-culture analyses (e.g. RT-PCR) or for further cultivation.

For more information and instructions, please consult the General Protocol GP-4 "Preparation of *3-D Life* Hyaluronic Acid (HA) Hydrogels" and the *3-D Life* Hydrogels User Guide on www.cellendes.com.

Quantity

Allows formation of 3.3 ml *3-D Life* Hydrogel of a crosslinking strength of 1.2 mmol/L.

Components

Material	Quantity	Concentration of reactive groups	Storage
SG-Dextran	170 µl	30 mmol/L	Short term (≤2 months): 4°C Long Term: -80°C
HyLink, lyophilized	2x 200 µl*	10 mmol/L*	Lyophilisate and after reconstitution: -70°C
10x CB (pH 7.2)	200 µl	n.a.	Short term (≤2 months): 4°C Long term: -20°C or lower
Water	2x 1500 µl	n.a	Room temperature or lower

All materials are filter-sterilized.
*Volume/concentration after reconstitution of lyophilisate.

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Reconstitution HyLink:

1. Briefly centrifuge vial containing HyLink lyophilisate to make sure that the entire material is at the bottom of the reaction tube.
2. Add 188 µl *3-D Life* Water per tube for a concentration of 10 mmol/L thiol groups.
3. Close tube and briefly vortex.
4. Incubate for 60 min at room temperature.
5. Briefly vortex and centrifuge again.
6. HyLink is now ready for use.

Notes After reconstitution, HyLink is a viscous solution. Low binding pipet tips are recommended for accurate pipetting up to 20 µl. For volumes above 20 µl use wide orifice pipet tips.

Intended for research use only. Not for use in human therapeutic or diagnostic applications.

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