

Product Data Sheet



Product Name *3-D Life* FG-Dextran

Catalog Number M92-3

Description *3-D Life* FG-Dextran is a component of the *3-D Life* Hydrogel system. It contains maleimide-functionalized dextran (Mal-Dextran) that can be used together with PEG-Link (Cat. No.L50-1 or L50-3) or CD-Link (Cat. No. L60-1 or L60-3) to set up fast gelling, cell-compatible hydrogels.

Dextran-based *3-D Life* 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.

10 x CB (pH 7.2) is a buffer to control pH and osmotic conditions during gel formation in the presence of cells.

For instructions, please consult the General Protocol GP-1 "Preparation of *3-D Life* Fast Gelling Hydrogels" and the *3-D Life* Hydrogels User Guide on www.cellendes.com.

Quantity Allows formation of up to 6 ml *3-D Life* Hydrogel depending on the stiffness of the gel, if used together with thiol-functionalized polymers (*3-D Life* PEG-Link or CD-Link).

Material	Quantity	Concentration of reactive groups	Storage
● Mal-Dextran [#] , lyophilized	3x 170 µl*	30 mmol/L*	Lyophilisate and after reconstitution: -80°C.
● 10 x CB (pH 5.5)	600 µl	n.a.	Short term (≤2 months): 4°C Long term: -20°C to -80°C
○ Water	4x 1500 µl	n.a	RT to -80°C

All materials are filter-sterilized.
#Keep on ice while in use.
*Volume/concentration after reconstitution of lyophilisate.

Reconstitution Mal-Dextran:

1. Briefly centrifuge vial containing the lyophilized Mal-Dextran to make sure that the entire material is at the bottom of the centrifuge tube.
2. Add 175 µl *3-D Life* Water for a concentration of 30 mmol/L maleimide groups.
3. Close tube and briefly vortex.
4. Place centrifuge tube on ice for 5 min.
5. Briefly vortex and centrifuge again.
6. Mal-Dextran is now ready for use. **Keep on ice while in use.**

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