Product Data Sheet

Product Name	*3-D Life* PVA-PEG Hydrogel FG

Catalog Number	FG80-1
Description	The *3-D Life* PVA-PEG Hydrogel FG Kit provides reagents for setting up fast gelling, cell-compatible hydrogels. Its major components are maleimide-functionalized polyvinyl alcohol (Mal-PVA) and the crosslinker PEG-Link. When the two reagents are combined, thiol groups on PEG-Link form stable thioether bonds with maleimide groups on Mal-PVA, which results in the formation of 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 maleimide groups of Mal-PVA to provide a cell-adhesive matrix.
	For more information and 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 2 ml *3-D Life* Hydrogel depending on the stiffness of the gel.

Components

	Material	Quantity	Concentration of reactive groups	Storage
⬤	Mal-PVA[#]	170 µl	30 mmol/L maleimide groups	-80°C (avoid frequent freeze-thawing)
⬤	PEG-Link, lyophilized	200 µl*	20 mmol/L* thiol groups	Lyophilisate and after reconstitution: -20°C to -80°C
⬤	10x CB (pH 5.5)	200 µl	n.a	Short term (≤2 months): 4°C Long term: -20°C to -80°C
⬤	Water	2x 1500 µl	n.a	Room temperature or lower

All materials are filter-sterilized.

[#]Keep on ice while in use.

*Volume/concentration after reconstitution of lyophilisate.

Reconstitution   PEG-Link:

1. Briefly centrifuge vial containing the PEG-Link 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 20 mmol/L thiol groups. This results in a 200 µl PEG-Link solution.
3. Close tube and briefly vortex.
4. Incubate for 5 min.
5. Briefly vortex and centrifuge again.
6. PEG-Link is now ready for use.

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