

Product Data Sheet







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

Catalog Number G82-1

Description The *3-D Life* PVA-PEG Hydrogel SG Kit provides reagents for setting up slow gelling, cell-compatible hydrogels. Its major components are the polymeric SG-PVA and the crosslinker PEG-Link. When the two reagents are combined, thiol groups on PEG-Link form stable thioether bonds with thiol-reactive groups on SG-PVA, 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. Prior to the crosslinking step, 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 of SG-PVA to provide a cell-adhesive matrix. For more information and instructions, please consult the General Protocol GP-2 "Preparation of *3-D Life* Slow 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
 SG-PVA	170 µl	30 mmol/L	Short term (≤2 months): 4°C; Long Term: -80°C, avoid frequent freeze/thaw cycles
 PEG-Link, lyophilized	200 µl*	20 mmol/L	Lyophilisate and after reconstitution: -20°C to -80°C
 10 x CB (pH 7.2)	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.

*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.

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