

*3-D Life*  
Maleimide-Dextran Set

Cat.-No. M90-3

*Upon arrival immediately  
store Maleimide-Dextran at  
-80°C*



# Product Data Sheet

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**Product Name:** *3-D Life* Maleimide-Dextran







**Description:** *3-D Life* Maleimide-Dextran is a component of the *3-D Life* Hydrogel system. It contains maleimide-functionalized 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 biomimetic hydrogels for 3-D cell culture. The use of Maleimide-Dextran allows degradation of the hydrogel by addition of dextranase, and thus recovery of cells for further cultivation or post-culture analyses (e.g. RT-PCR).  
10 x CB (pH 5.5) and 10 x CB (pH 7.2) are buffers to control pH and osmotic conditions during gel formation in the presence of cells. Thioglycerol is a control reagent which can be used to maintain hydrogel strength in experiments, where cellular phenotypes are analyzed in peptide-modified versus unmodified hydrogels.  
Further information and detailed protocols are available in the *3-D Life* Hydrogels User Guide, [http://www.cellendes.com/pdfs/manual\\_hydrogel.pdf](http://www.cellendes.com/pdfs/manual_hydrogel.pdf).

**Product Number:** M90-3

**Quantity:** Allows formation of 3 ml *3-D Life* Hydrogel, modified with 1 mmol/l adhesion factor (e.g. peptides) and crosslinked with 4 mmol/l thiol groups.

**Application:** *3-D Life* Maleimide-Dextran 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 establish hydrogels for 3-D cell cultures.

**Components:**

	Materials provided <sup>1</sup>	Quantity	Storage Temperature <sup>2</sup>
	Maleimide-Dextran (30 mmol/l thiol groups)	3 x 170 µl	-80°C
	Thioglycerol (20 mmol/l thiol groups)	180 µl	-20°C
	10 x CB (pH 7.2)	600 µl	-20°C
	10 x CB (pH 5.5)	600 µl	-20°C
	Dextranase	3 x 500 µl	4°C
	Water	2 x 750 µl	R/T

<sup>1</sup> All materials are filter-sterilized.  
<sup>2</sup> Alternatively, all reagents can be stored at -80°C.

**NOTE:** INTENDED FOR RESEARCH USE ONLY. NOT FOR USE IN HUMAN THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.