

Specification

Polyethylene Glycol 6000 *BioChemica*

A1387

Physical Description:	Solid
Product Code:	A1387
Product Name:	Polyethylene Glycol 6000 <i>BioChemica</i>
Specifications:	<p>Average M: 5000 - 7000</p> <p>Hydroxyl-No.: 16 - 22</p> <p>pH (5 %; H₂O; 20°C): 4.5 - 7.0</p> <p>Heavy metals (as Pb): max. 0.005 %</p> <p>Water: max. 1 %</p>
WGK:	1
Storage:	RT
Molecular Formula:	HO(C ₂ H ₄ O) _n H
CAS:	25322-68-3
EINECS:	500-038-2
CS:	34042000
Comment	<p>Polyethylene glycol (PEG) is used for different purposes like virus / phage accumulation (1), fusion plant protoplasts (2) or the fractionated precipitation of proteins (5). Besides, it improves the ligation efficiency by 'macromolecular crowding', i. e. the concentration of the molecules in solution (40 % stock solution in ref. 3, 4).</p>
Bibliography	<p>(1)Yamamoto, K.R. <i>et al.</i> (1970) <i>Virology</i> 40, 734-744Rapid Bacteriophage sedimentation in the presence of Polyethyleneglycol and its application to large-scale virus purification. (2)Power, J.B. <i>et al.</i> (1986) <i>Methods Enzymol.</i> 118, 578-594Fusion and transformation of plant protoplasts. (3)Zimmerman, S.B. & Pfeiffer, B.H. (1983) <i>Proc. Natl. Acad. Sci. USA</i> 80, 5852-5856'Macromolecular crowding' enables 'blunt-end' ligations. (4)Pfeiffer, B.H. & Zimmerman, S.B. (1983) <i>Nucleic. Acids Res.</i> 11, 7853-7871Polymer-stimulated ligation of blunt and sticky DNA ends. (5)Ingham, K.C. (1990) <i>Methods Enzymol.</i> 182, 301-306Precipitation of proteins with polyethylene glycol.</p>

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