

Specification

**D(-)-Sorbitol (Ph. Eur., USP-NF) pure, pharma grade**

**A2222**

<b>Solubility:</b>	2350 g/L (H <sub>2</sub> O)
<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A2222
<b>Product Name:</b>	D(-)-Sorbitol (Ph. Eur., USP-NF) pure, pharma grade
<b>Specifications:</b>	<p>Assay (HPLC, dried subst.): 97.0 - 100.5 %</p> <p>Appearance of solution: passes test</p> <p>Identity: passes test</p> <p>Red. sugars: max. 0.2 %</p> <p>Sulfated ash: max. 0.1 %</p> <p>Microbiological test: passes test</p> <p>Related subst.: passes test</p> <p>pH (10 %; H<sub>2</sub>O): 3.5 - 7.0</p> <p>Conductivity (20 %; H<sub>2</sub>O dest.): max. 20 µS/cm</p> <p>Water (K.F.): max. 1.5 %</p> <p>Ni: max. 0.0001 %</p> <p>Pb: max. 0.00005 %</p>
<b>WGK:</b>	1
<b>Storage:</b>	RT
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>14</sub> O <sub>6</sub>
<b>M:</b>	182.18 g/mol
<b>CAS:</b>	50-70-4
<b>EINECS:</b>	200-061-5
<b>CS:</b>	29054491

**AppliChem GmbH**

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**Comment**

Sorbitol is used in high concentration for cell disruption. The stabilizing buffer for enzymatic lysis of yeast contains 1 M Sorbitol (1). Concentrations of 300 mM and 400 mM, respectively, are used for the extraction of chloroplasts and thylacoids, respectively (2).

**Bibliography**

(1) Sambrook, J., Fritsch, E.F. & Maniatis, T. (1989) *Molecular Cloning*: A Laboratory Manual, 2nd Edition; Page 18.36, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York. (2) Gegenheimer, P. (1990) *Methods Enzymol.* **182**, 174-193 Preparation of extracts from plants.

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