

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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