

Specification

**D(-)-Mannitol *BioChemica***

**A1903**

<b>Solubility:</b>	156 g/L (H <sub>2</sub> O)
<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A1903
<b>Product Name:</b>	D(-)-Mannitol <i>BioChemica</i>
<b>Specifications:</b>	<p>Assay (HPLC): min. 99 %</p> <p><math>\alpha</math>20°C/D; 8 %, borate compl.: +23° - +25°</p> <p>Heavy metals (as Pb): max. 0.0005 %</p> <p>Loss on drying: max. 0.1 %</p> <p>Insoluble matter: passes test</p> <p>Chloride: max. 0.005 %</p> <p>Sulfate: max. 0.01 %</p> <p>A (1 cm/1 M in H<sub>2</sub>O)</p> <p>280 nm: max. 0.05</p> <p>260 nm: max. 0.05</p>
<b>WGK:</b>	2
<b>Storage:</b>	RT
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>14</sub> O <sub>6</sub>
<b>M:</b>	182.17 g/mol
<b>CAS:</b>	69-65-8
<b>EINECS:</b>	200-711-8
<b>CS:</b>	29054300
<b>Comment</b>	<p>Besides its physiological function of a 'plain' sugar, Mannitol can function as an antioxidant, which is able to scavenge OH-radicals (e. g. ref. 1).</p>

**AppliChem GmbH**

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### **Bibliography**

(1)Lin, Y. & Jamieson, D. (1992) *Pharmacol. Toxicol.* **70**, 271-277 Effects of antioxidants on oxygen toxicity *in vivo* and lipid peroxidation *in vitro*. (2)Desesso, J.M. *et al.* (1994) *Teratology* **49**, 248-259 D-Mannitol, a specific hydroxyl free radical scavenger, reduced the developmental toxicity of hydroxyurea in rabbits.

### **AppliChem GmbH**

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