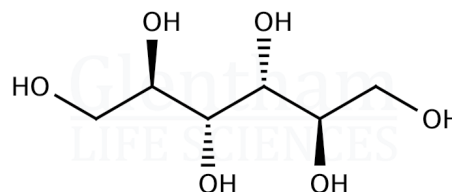


## Certificate of Analysis

Product Name D-Mannitol, EP, USP grade  
Glentham Code GC1282  
CAS Number 69-65-8  
EINECS 200-711-8  
MDL Number MFCD00064287  
PubChem SID 310276023  
Batch Number 160VJP

Molecular Weight 182.17  
Molecular Formula  $C_6H_{14}O_6$   
Storage Temp. +20°C



Property	Specification	Batch 160VJP
Physical Description	White or almost white crystalline powder	White crystalline powder
Identification	A, B according to USP	Conforms
Identification	A, C, D according to Ph. Eur.	Conforms
Melting Point	165 - 170 °C	167.4 - 170.0
Solubility (10% in water)	Clear, colourless solution	Clear, colourless solution
Conductivity	≤ 20μS/cm	1.4μS/cm
Reducing Sugars	≤ 0.2% (as glucose)	≤ 0.1%
D-Sorbitol	≤ 2.0%	0.8%
Impurity B	≤ 2.0%	≤ 0.05%
Impurity C	≤ 2.0%	≤ 0.05%
Any Unspecified Impurity	≤ 0.10%	≤ 0.10%
Total Impurities	≤ 2.0%	0.8%
Specific Optical Rotation	According to USP, Ph. Eur.	Conforms
Nickel (Ni)	≤ 1ppm	≤ 1ppm
Arsenic (As)	≤ 1ppm	Conforms
Lead (Pb)	≤ 0.5ppm	Conforms
Heavy Metals (as Pb)	≤ 5ppm	≤ 5ppm
Chloride (Cl)	≤ 70ppm	Conforms
Sulphate (SO <sub>4</sub> )	≤ 100ppm	Conforms
Loss on Drying	≤ 0.30%	0.05%
Assay	98.0 - 102.0 % (anhydrous substance)	99.2%

Specification Version v1.1  
Manufacture Date 2020-04-11  
Re-Test Date 2027-10-27

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2024