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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

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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 (CI)	≤ 70ppm	Conforms
Sulphate (SO4)	≤ 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 or contact us using the details above for the current version of this document.

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Page 1 of 1 Printed: 2024-04-29 04:44:17