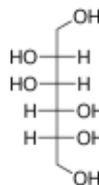


Certificate of Analysis

Product Name:

D-Mannitol - meets EP, FCC, USP testing specifications

Product Number: M8429
Batch Number: SLCN5187
Brand: SIAL
CAS Number: 69-65-8
MDL Number: MFCD00064287
Formula: C₆H₁₄O₆
Formula Weight: 182.17 g/mol
Quality Release Date: 07 JUL 2022
Recommended Retest Date: JUL 2028



Test	Specification	Result
Reducing Substances	Pass	Pass
Sugars		
Identification Test A (FCC)	Pass	Pass
Identification Test B (FCC)	Pass	Pass
Initial Melting Point	≥ 165 °C	165 °C
Final Melting Point	≤ 170 °C	166 °C
Assay	97.0 - 102.0 %	99.0 %
(Dried basis) per USP and EP		
Identification	Pass	Pass
(USP and EP)		
Loss on Drying	≤ 0.3 %	0.0 %
Assay	96.0 - 101.5 %	99.4 %
Dried basis per FCC		
Appearance	Pass	Pass
White or almost White, Crystalline powder or Free-flowing granules.		
Appearance of Solution	Pass	Pass
Clear and Colorless		
Conductivity (µS/cm)	≤ 20	1
Related Substances	Pass	Pass
Lead (Pb)	≤ 1 ppm	< 1 ppm
Nickel (Ni)	≤ 1 ppm	< 1 ppm
pH	4.0 - 7.5	5.4

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Certificate of Analysis

Product Number: M8429
Batch Number: SLCN5187

Test	Specification	Result
Residue on Ignition	$\leq 0.1 \%$	0.0 %
Residual Solvents USP 467	Meets Requirements	Class 2 solvents only, meets option 1
Expected Solvent	Residual Solvent	Ethylene glycol



Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

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