

3050 Spruce Street, Saint Louis, MO 63103, USA

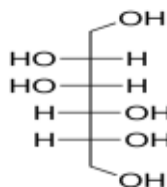
Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Certificate of Analysis

Product Name:

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

**Product Number:** M8429  
**Batch Number:** SLBX8861  
 Brand: SIAL  
 CAS Number: 69-65-8  
 MDL Number: MFCD00064287  
 Formula: C<sub>6</sub>H<sub>14</sub>O<sub>6</sub>  
 Formula Weight: 182.17 g/mol  
 Quality Release Date: 22 AUG 2018  
 Recommended Retest Date: AUG 2024



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	168 °C
Final Melting Point	≤ 170 °C	169 °C
Assay	97.0 - 102.0 %	99.2 %
(Dried basis) per USP and EP		
Identification	Pass	Pass
(USP and EP)		
Loss on Drying	≤ 0.3 %	0.1 %
Assay	96.0 - 101.5 %	99.1 %
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	5.3

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](http://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.

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Certificate of Analysis

**Product Number:** M8429  
**Batch Number:** SLBX8861

Test	Specification	Result
Residue on Ignition	≤ 0.1 %	0.0 %
Residual Solvents USP 467	Meets Requirements	No residual solvents are present



Rodney Burbach, Manager  
Analytical Services  
St. Louis, Missouri US

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.