

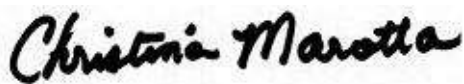
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Certificate of Analysis

Product Description: D-Mannitol
Catalog Number: 102248
Lot: M7359**Formula:** $C_6H_{14}O_6$
CAS #: 69-65-8
Physical Description: Fine White Powder**Formula Weight:** 182.17
Storage: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	~99%	99%
Melting Point	163-172°C	164.3-165.4°C
Loss on Drying	≤1.0%	0.09%
Optical Rotation (c=1, ammonium molybdate, sulfuric acid)	+130 to +150°	+141.0°

D-Sorbitol: 0.70%
Related Substances: Passes
Identification (USP, HPLC): Passes
Acidity: 0.047 ml 0.02 N NaCl
Reducing Sugar (USP): Passes
Conductivity: 1 μ mhos/cm
Particle Size (retained, 60 mesh): 3.7%
Particle Size (retained, 100 mesh): 1.70%
Particle Size (retained, 200 mesh): 80.4%
Particle Size (retained, 325 mesh): 5.7%
Clostridium Reducer Sulfite: Absent/2 g
E. coli: Absent/g
Enterobacter: Absent/g
Fecal Coliform: Absent/g
Osmophilics: 10 cfu/g
Stranger Matters: Absent/100 g
Salmonella: Absent/25 g
Staphylococcus aureus: Absent/5 g
Total Coliforms: Absent/g
Total Count of Mesophile Bacteria: <10 cfu/g
Yeast and Molds: 10 cfu/g
Pseudomonas aeruginosa: Absent/10 g
Appearance of Solution: Passes
pH: 5.50
Arsenic: <0.030 ppm
Lead: <0.030 ppm
Nickel: <0.030 ppm
Chloride: <12.000 ppm
Sulphate: <8.000 ppm
Identification (BP-EP, IR): Passes
Identification (BP-EP, SR): 23.5
Identification (BP-EP, TCL): Passes
Red Sugar (EP): 12.8
Water (KF): 0.03%



07/31/2013 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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