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Certificate of Analysis

Product Description: D-Lactose Anhydrous, USP/NF_
Catalog Number: 199677_
Lot: QR13649_

Formula: C₁₂H₂₂O₁₁

CAS #: 63-42-3

Physical Description: White Powder

Formula Weight: 342.3

Storage: 15 - 30°C

Test	Specification	Result
Identity Test A	Passes	Passes
Identity Test B	Passes	Passes
Identity Test C	Passes	Passes
Loss on Drying	≤0.5%	0.3%
Water	≤1.0	0.6% (KF)
Heavy Metals	≤5 µg/g	<5 µg/g
Content of alpha and beta anomers	Passes	Passes
Clarity and Color of Solution	Passes	Passes
Specific Rotation	+54.4° to +55.9°	+54.4°
Microbial Limits: Total Aerobic Mold & Yeasts Absence of <i>E. coli</i>	100/g 50/g Passes	0/g 23/g Passes
Acidity or Alkalinity	Passes	Passes
Residue on Ignition	≤0.1%	0.0%
Protein and Light Absorbing Impurities	Passes	Passes

Mesh:

- 60: 14-18%
- 80: 18-21%
- 100: 11-12%
- 140: 16.17%
- 200: 11.12%

- thru 200: 21-28%

Tapped density: 0.76

Bulk density: 0.52

Recommended Retest Date: 03/20/2020



03/26/2017 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

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Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site

Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)