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Certificate of Analysis

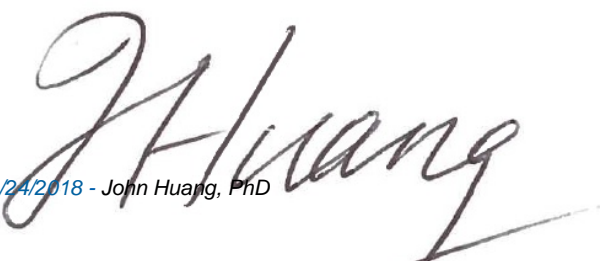
Product Description: Lactulose_
Catalog Number: 153932_
Lot: Q9887_

Formula: C₁₂H₂₂O₁₁
CAS #: 4618-18-2
Physical Description: White Powder

Formula Weight: 342.3
Storage: 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	~98%	99.7% (HPLC)
FTIR	Conforms to Reference	Conforms to Reference
Optical Rotation (c=5, water, 24 hrs)	-45 to -52°	-48.3°
Moisture	<3.0%	0.5%
pH (1% aq soln)	5.5 - 6.5	6.47

Total counts: 10 cfu/g
Solubility (6% in water): Clear, colorless solution
Impurity C: #0.5%
Total impurities: #0.3%
Methanol: #0.50 ppm
Boron (B): #9 ppm
Lead (Pb): #0.5ppm
Sulfated ash: #0.1%
E.coli: Absent
Recommended Retest Date: 07/25/2024


08/24/2018 - John Huang, PhD

MP Biomedicals, LLC.
Quality Control Manager

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<http://www.mpbio.com>

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)