



MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: D-(+)-Trehalose Dihydrate_
Catalog Number: 153948_
Lot: R22006_

Formula: C₁₂H₂₂O₁₁·2H₂O

CAS #: 6138-23-4

Physical Description: White Powder

Formula Weight: 378.3

Storage: Room Temperature

| Test | Specification | Result |
|------------------|-------------------------|----------------------|
| Identity Test | Passes | Passes |
| Purity | ≥99% | 99% |
| FTIR | Conforms to Standard | Conforms to Standard |
| Melting Point | 201 - 212°C | 204.6 - 206.3°C |
| Loss on Drying | 8.5-10.5% | 10.1% |
| Optical Rotation | +176° ± 5° (c=2, water) | Passes |

Turbidity of Solution: 0.03%

pH (30% solution): 6.13

Residue on Ignition: 0.01%

Pb: <1 ppm

As: <1 ppm

Total Bacteria Count: 400 cfu/g

Mold and Yeasts: 150 cfu/g

E. coli: 30 cfu/100 g

10/25/2006 - Robert Beattie

MP Biomedicals, LLC.

Technical Director

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<mailto:biotech@mpbio.com>

<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)