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## Certificate of Analysis

**Product Description:** D-(+)-Trehalose Dihydrate\_  
**Catalog Number:** 153948\_  
**Lot:** R4341\_

**Formula:** C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·2H<sub>2</sub>O

**CAS #:** 6138-23-4

**Physical Description:** White Powder

**Formula Weight:** 378.3

**Storage:** Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99%	99.3%
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	201 - 212°C	208.5-211.4°C
Loss on Drying	≤9.5%	0.05%
Optical Rotation	+176° ± 5° (c=2, water)	+172.5°

Approved - 04/16/2001 by Joe Dietz

MP Biomedicals, LLC.

Technical Director

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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)