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## Certificate of Analysis

**Product Description:** D-(+)-Trehalose Dihydrate\_  
**Catalog Number:** 153948\_  
**Lot:** MR31691\_

**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%	99.1%
FTIR	Conforms to Standard	Conforms to Standard
Loss on Drying	8.5 - 10.5%	10.50%

Residue on Ignition: 0.01%

pH: 5.47

Arsenic: #1 ppm

Coliform: Negative

Coloration: 0.002

Heavy Metals (Pb): <1 ppm

Turbidity (30% aq soln): 0.000

Viable Count: 0.0 cfu/g

Specific optical rotation [α]<sub>20/D</sub> (c=7, H<sub>2</sub>O): +178.6°

Specific optical rotation (anhydrous) [α]<sub>20/D</sub> (c=10, H<sub>2</sub>O): +197.6°

Soluble starch: Not detected

Solubility: Practically clear and colorless

*Christina Marotta*

07/29/2014 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

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<http://www.mpbio.com>

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