

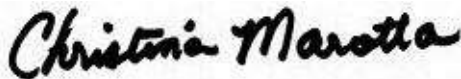
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## Certificate of Analysis

**Product Description:** D-(+)-Trehalose Dihydrate  
**Catalog Number:** 103097  
**Lot:** M3849**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 Crystalline Powder**Formula Weight:** 378.3**Storage:** Room Temperature

| Test                    | Specification        | Result               |
|-------------------------|----------------------|----------------------|
| Identity Test           | Passes               | Passes               |
| Purity                  | ≥98%                 | 99.1%                |
| FTIR                    | Conforms to Standard | Conforms to Standard |
| Water Content           | 8.5 - 10.5%          | 9.26%                |
| Recommended Retest Date | Month/Day/Year       | 4/30/2017            |

Loss on drying: 0.11%  
Residue on Ignition: 0.00%  
Arsenic: ≤1 ppm  
Coliform Organisms: Negative  
Coloration of Solution (30% aq soln): 0.003  
Heavy Metals (Pb): ≤1 ppm  
pH (30% aq soln): 5.57  
Turbidity of Solution (30% aq soln): 0.00  
Viable Count: 0 cfu/g  
Water (KF): 9.26%



04/13/2012 - Christina Marotta  
MP Biomedicals, LLC.  
Technical Director

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mailto:biotech@mpbio.com  
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