

**MP Biomedicals, LLC**29525 Fountain Parkway  
Solon, Ohio 44139Telephone: 440/337-1200  
Toll Free: 800/854-0530

## Certificate of Analysis

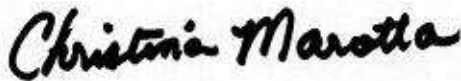
**Product Description:** L-(+)-Rhamnose Monohydrate  
**Catalog Number:** 102809  
**Lot:** Q1674

**Formula:** C<sub>6</sub>H<sub>12</sub>O<sub>5</sub>·H<sub>2</sub>O  
**CAS #:** 10030-85-0  
**Physical Description:** White Crystals

**Formula Weight:** 182.17  
**Storage:** Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	~99%	99.8% (HPLC)
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	91 - 101°C	99-100.5°C
Moisture	Report Result	9.9% (KF)
Optical Rotation	+8.2 ± 1° (c=4, H <sub>2</sub> O, NH <sub>3</sub> )	7.8°

Residue on Ignition: 0.08%  
Heavy Metals: ≤5 ppm  
Calcium: ≤10 ppm  
Recommended Retest Date: 08/06/2016



02/26/2015 - Christina Marotta  
MP Biomedicals, LLC.  
Technical Director

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<mailto:biotech@mpbio.com>  
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