

**MP Biomedicals, LLC**29525 Fountain Parkway  
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## Certificate of Analysis

**Product Description:** L-(+)-Rhamnose Monohydrate  
**Catalog Number:** 102809  
**Lot:** Q4028**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 Powder**Formula Weight:** 182.17  
**Storage:** Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	~99%	>99% (HPLC)
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	91 - 101°C	91.1-92.4°C
Moisture	Report Result	10.0% (KF)
Optical Rotation	+8.2 ± 1° (c=4, H <sub>2</sub> O, NH <sub>3</sub> )	+7.4°

Residue on Ignition: 0.08%  
Heavy Metals: ≤5 ppm  
Calcium: ≤10 ppm  
Recommended Retest Date: 4/21/2017



04/28/2016 - John Huang, PhD  
MP Biomedicals, LLC.  
Quality Control Manager

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