



**MP Biomedicals, LLC**

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## Certificate of Analysis

**Product Description:** 1,4-Butanediol, Certified Grade\_  
**Catalog Number:** 300023\_  
**Lot:** Q7055\_

**Formula:** HO(CH<sub>2</sub>)<sub>4</sub>OH

**CAS #:** 110-63-4

**Physical Description:** Clear colorless liquid

**Formula Weight:** 90.12

**Storage:** 15 - 30°C

| Test          | Specification | Result         |
|---------------|---------------|----------------|
| Identity Test | Passes        | Passes         |
| Assay         | ≥99.0%        | 99.1% (GC-FID) |
| Color (APHA)  | ≤10           | <5             |
| Water         | ≤0.1%         | 0.01%          |

Recommended Retest Date: 07/04/2022

07/19/2017 - John Huang, PhD  
MP Biomedicals, LLC.  
Quality Control Manager

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