



MP Biomedicals, LLC

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Certificate of Analysis

Product Description: DL-Threonine_
Catalog Number: 103050_
Lot: 7652K_

Formula: C₄H₉NO₃

CAS #: 80-68-2

Physical Description: White Powder

Formula Weight: 119.12

Storage: Room Temperature

| Test | Specification | Result |
|------------------|-------------------------|----------------------|
| Identity Test | Passes | Passes |
| Purity | ≥99% | 99.1% |
| Melting Point | 238 - 248°C | 238 - 243°C |
| FTIR | Conforms to Standard | Conforms to Standard |
| Loss on Drying | ≤0.2% | 0.2% |
| Optical Rotation | -1° to +1° (c=3, water) | 0° (c=3, water) |

Chloride: <0.020%

Heavy Metals: <10 ppm

Arsenic: <1 ppm

Residue on Ignition (sulfated): 0.06%

pH: 5.4

Christina Marotta

08/04/2010 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

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Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site

Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)

