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## Certificate of Analysis

**Product Description:** DL-Valine\_  
**Catalog Number:** 103229\_  
**Lot:** QR10543\_

**Formula:** C<sub>5</sub>H<sub>11</sub>NO<sub>2</sub>

**CAS #:** 516-06-3

**Physical Description:** White Powder

**Formula Weight:** 117.15

**Storage:** Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99%	99.2%
FTIR	Conforms to Standard	Conforms to Standard

Chloride: <0.10%

Heavy metals: <10 ppm

Arsenic: <2 ppm

Loss on drying: 0.0%

Residue on ignition: 0.07%

Optical rotation: 0.117°

Recommended retest date: 09/29/2016

*Christina Marotta*

05/13/2015 - 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)