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## Certificate of Analysis

**Product Description:** DL-Valine\_  
**Catalog Number:** 103229\_  
**Lot:** M9069\_

**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%	99.1%
FTIR	Conforms to Standard	Conforms to Standard

Chloride: <0.10%  
Heavy metal: <10 ppm  
Arsenic: <2 ppm  
Loss on drying: 0.10%  
Residue on ignition: 0.06%

05/13/2014 - 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  
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