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## Certificate of Analysis

**Product Description:** L-Leucine  
**Catalog Number:** 102158  
**Lot:** Q6467**Formula:** C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub>  
**CAS #:** 61-90-5  
**Physical Description:** White powder**Formula Weight:** 131.18  
**Storage:** 15 - 30°C

Test	Specification	results
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to standard
Specific Rotation	+14.5° to +16.5°	+14.9°
Loss on Drying	≤0.2%	0.10%

Assay: 99.7%  
pH: 6.0  
Heavy metals: <0.0015%  
Residue on ignition: 0.04%  
Chloride: <0.05%  
Sulfate: <0.03%  
Iron: <0.003%  
Total plate count: <1000 cfu/g  
Yeast & Mold: <100 cfu/g  
E. coli: Negative  
Total impurities: <2.0%  
Organic volatile impurities: Conforms to USP36  
Residual solvents: Conforms to USP36  
Recommended retest date: 11/10/2018



04/20/2017 - John Huang, PhD  
MP Biomedicals, LLC.  
Quality Control Manager

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