

**MP Biomedicals, LLC**

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Certificate of Analysis

Product Description: L-Leucine_

Catalog Number: 102158_

Lot: 2345K_

Formula: C₆H₁₃NO₂

CAS #: 61-90-5

Physical Description: Fine White Powder

Formula Weight: 131.18

Storage: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
Specific Rotation	+14.5° to +16.5°	+15.24°
Loss on Drying	≤0.2%	0.08%

Assay: 99.42%

pH: 6.20

Heavy Metals: <0.001

Transmittance: 99.3%

Residue on Ignition: 0.075%

Chloride: <0.020%

Sulfate: <0.020%

Asrsenic: #0.0001%

Iron: #0.001%

Ammonium: <0.02

Total Plate Count: #1000 cfu/g

Yeast & Mold: #100 cfu/g

E.coli: Negative

Salmonella: Negative

12/09/2008 - Robert Beattie

MP Biomedicals, LLC.

Technical Director

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<http://www.mpbio.com>

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)