



## CERTIFICATE OF ANALYSIS

Product Name: **L-Leucine**  
USP Grade

Catalog Number: L005                      Molecular Formula:  $C_6H_{13}NO_2$   
Lot Number: 07152005                      Formula Weight: 131.17  
CAS Number: 61-90-5                      Storage: 15 to 30°C  
Retest Date: 31-JUL-2021

<u>Test</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White Crystalline Powder	PASS
Identity Test	Passes Test	PASS
Assay	98.5 - 101.5 %	99.9 %
Specific Rotation	+14.9° to +17.3°	+15.6°
Loss on Drying	≤ 0.2 %	0.02 %
Residue on Ignition	≤ 0.4 %	0.01 %
Chloride (Cl)	≤ 0.05 %	< 0.02 %
Sulfate (SO <sub>4</sub> )	≤ 0.03 %	< 0.02 %
Iron (Fe)	≤ 0.003 %	< 0.001 %
Heavy Metals (as Pb)	≤ 0.0015 %	< 0.001 %
Solubility (1%, H <sub>2</sub> O)	Clear, Colorless Solution	PASS
pH (1%, H <sub>2</sub> O)	5.5 - 7.0	5.92
Endotoxin (125mg/L, H <sub>2</sub> O)	≤ 0.125 EU/mL	< 0.1 EU/mL

**This product meets or exceeds the quality standards established by Caisson Laboratories, Inc.**

*This product is intended for Laboratory Use Only*

Prepared by:

Reviewed by:

Weston Christensen  
Quality Control

12-JUL-2019