

## Certificate of Analysis

**Product Description:** L-Leucine  
**Catalog Number:** 102158  
**Lot:** Q2916

**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:** Room Temperature

Test	Specification	results
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to standard
Specific Rotation	+14.5° to +16.5°	14.8°
Loss on Drying	≤0.2%	0.0%

Assay: 99.7%  
 pH: 6.01  
 Heavy metals: 0.0006%  
 Residue on ignition: 0.04%  
 Chloride: 0.025%  
 Sulfate: 0.004%  
 Iron: 0.0005%  
 Total plate count: <1000 cfu/g  
 Yeast & Mold: <100 cfu/g  
 E. coli: Negative  
 Salmonella: Negative  
 Total impurities: <2.0%  
 Each individual impurity: <0.5%  
 Organic volatile impurities: Conforms to USP37  
 Residual solvents: Conforms to USP37  
 Mesh size: 100% through 80 mesh  
 Recommended retest date: 05/10/2017


 A handwritten signature in blue ink, appearing to read 'J Huang'.

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