



## Specification

### L-Leucine USP

**Catalog Number:** LE1001  
**CAS Number:** 61-90-5  
**Molecular Formula:**  $C_6H_{13}NO_2$   
**Molecular Weight:** 131.17  
**Storage:** 15°C – 30°C  
**Retest Period:** Two years from the date of manufacture

Test	Specification
Appearance	White to off-white powder
Assay	98.5% to 101.5%
Identification (by IR)	To match standard
Specific Rotation	+14.9° to +17.3°
Moisture (LOD)	≤0.2%
pH (1% solution in H <sub>2</sub> O)	5.5 to 7.0
Residue on Ignition	≤0.10%
Chromatographic Impurities	Total ≤2.0% Individual ≤0.5%
Chloride (Cl)	≤0.050%
Sulfate (SO <sub>4</sub> )	≤0.03%
Heavy Metals	≤10.0ppm
Arsenic (As)	≤1.00ppm
Cadmium (Cd)	≤1.00ppm
Iron (Fe)	≤30.0ppm
Lead (Pb)	≤1.00ppm
Mercury (Hg)	≤1.00ppm
Total Plate Count	≤1,000cfu/g
Yeast & Mold	≤100cfu/g
Coliforms	≤100cfu/g
<i>E. coli</i>	Negative
<i>Salmonella</i>	Negative
<i>Staphylococcus aureus</i>	Negative
Mesh Size	60 - 200
Bulk Density	0.20 – 0.50g/mL
Tap Density	0.30 – 0.70g/mL

Approved:

John Grubb, PhD  
Gojira Fine Chemicals

Date:



# Gojira Fine Chemicals, LLC

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