

# Shine Star (Hubei) Biological Engineering Co., Ltd.

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## SPECIFICATIONS

**Product Name:** L- Leucine      **CAS NO.:** 61-90-5  
**Quality Standard:** AJI92  
**Description:** white crystals or crystalline powder, slightly bitter taste, sparingly soluble in water  
**Solubility (H<sub>2</sub>O, g/100g):** 2.38 (20°), 2.63 (40°), 3.19 (60°)

Test Items	Limit
Identification	conform with AJI92
Specific rotation $[\alpha]^{20}_D$	+14.9 to +16.0°
State of solution	clear and colorless, not less than 98.0%
Chloride (Cl)	not more than 0.020%
Ammonium (NH <sub>4</sub> )	not more than 0.02%
Sulfate (SO <sub>4</sub> )	not more than 0.020%
Iron (Fe)	not more than 10ppm
Heavy metals (Pb)	not more than 10ppm
Arsenic (As <sub>2</sub> O <sub>3</sub> )	not more than 1ppm
Other amino acids	conforms
Loss on drying	not more than 0.20%
Residue on ignition (sulfated)	not more than 0.10%
Assay	99.0% to 100.5%
pH	5.5 to 6.5

**Storage:** Preserve in tight containers at controlled room temperature.  
**Recommended limit:** 2 years