



## Specification

### L-Alanine USP

**Catalog Number:** AL1002  
**CAS Number:** 56-41-7  
**Molecular Formula:** C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub>  
**Molecular Weight:** 89.09  
**Storage:** 15°C – 30°C  
**Retest Period:** Two Years

Test	Specification
Appearance	White crystals
Assay (on dried basis) <sup>1</sup>	99.0 % to 101.0%
Identification (FTIR) <sup>1</sup>	Positive
Specific Rotation <sup>1</sup>	+13.7 to +15.1°
Moisture (LOD) <sup>1</sup>	≤ 0.2%
pH <sup>1</sup>	5.7 – 6.7
Chromatographic impurity <sup>1</sup>	Total ≤ 2.0% Individual ≤ 0.5%
Residue on Ignition <sup>1</sup>	≤ 0.15%
Chloride <sup>1</sup>	≤ 0.05%
Sulfate <sup>1</sup>	≤ 0.03%
Heavy Metals <sup>1</sup>	≤15ppm
Arsenic	≤ 5.0ppm
Cadmium	≤ 0.3ppm
Iron <sup>1</sup>	≤ 30ppm
Lead	≤ 5.0ppm
Mercury	≤ 0.2ppm
Total Plate Count	≤ 1,000cfu/g
Yeast & Mold	≤ 100cfu/g
Coliforms	Negative
<i>E. Coli</i>	Negative
<i>Salmonella</i>	Negative
<i>Staphylococcus Aureus</i>	Negative
Mesh size	≥ 95% thru 20mesh
Bulk Density	0.6 – 0.8g/mL

<sup>1</sup> USP specifications

Approved:

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# Gojira Fine Chemicals, LLC

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