

Certificate of Analysis

Date of Testing: 2023-06-19 10:10:41

Date of Next Testing: 2027-06-18 10:10:41

Product Name: **L-Alanine**

CAS Number: 56-41-7

Specifications & Purity: 99%

Lot #: F2306042

SKU #: **A108263**

Analysis: **096316**

Storage Temperature: Desiccated

Parameter	Limit Values	Result
Lead(Pb)	0-10 (ppm)	5.30 ppm
Mercury(Hg)	0-1 (ppm)	0.25 ppm
Cadmium(Cd)	0-1 (ppm)	0.51 ppm
Carbon by Elemental Analysis	40-41 (%)	40.40%
(As)Arsenic	0-3 (ppm)	2.00 ppm
Nitrogen by Elemental Analysis	15.2-16.2 (%)	15.86%
Purity(NonaqueousTitration)afterdrying	99-101 (%)	99.28%
Specific Rotation [a] ₂₀ /D(c=10 in HCl)(after drying)	13.2-15 (°)	13.21°
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O	Almost transparency	almost transparency
Appearance (A108263)	white powder and/or chunks	white powder and/or chunks



John Su
QA & QC Manager