

Certificate of Analysis

Date of Testing: 2024-08-21 09:51:23

Date of Next Testing: 2028-08-20 09:51:23

Product Name: **L-Alanine**

CAS Number: 56-41-7

Specifications & Purity: 99%

Lot #: H2414471

SKU #: **A108263**Version: **0**Analysis #: **393566**

Storage Temperature: Desiccated

Parameter	Limit Values	Result
Lead(Pb)	0-10 (ppm)	0.00 ppm
Mercury(Hg)	0-1 (ppm)	0.00 ppm
Cadmium(Cd)	0-1 (ppm)	0.00 ppm
Carbon by Elemental Analysis	40-41 (%)	40.63 %
(As)Arsenic	0-3 (ppm)	0.00 ppm
Specific Rotation [a] ₂₀ /D(c=10 in HCl)(after drying)	13.2-15 (°)	13.94°
Nitrogen by Elemental Analysis	15.2-16.2 (%)	15.79 %
Purity(Nonaqueous Titration)afterdrying	99-101 (%)	100.90 %
Appearance (A108263)	white powder and/or chunks	white powder and/or chunks
Solubility in H ₂ O	Almost transparency	almost transparency
Infrared spectrum	Conforms to Structure	Conforms to Structure

John Su
QA & QC Manager