

## Certificate of Analysis

Date of Testing: 2023-01-17 13:28:17

Date of Next Testing: 2027-01-16 13:28:17

Product Name: **L-Alanine**

CAS Number: 56-41-7

Specifications & Purity: 99%

Lot #: A2305096

SKU #: **A108263**

**Analysis:** **179759**

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
Purity(NonaqueousTitration)afterdrying	99-101 (%)	99.28%
Carbon by Elemental Analysis	40-41 (%)	40.40%
(As)Arsenic	0-3 (ppm)	2.00 ppm
Specific Rotation [a] <sub>20</sub> /D(c=10 in HCl)(after drying)	13.2-15 (°)	13.21°
Nitrogen by Elemental Analysis	15.2-16.2 (%)	15.86%
Appearance (A108263)	white powder and/or chunks	white powder and/or chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O	Almost transparency	almost transparency



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QA & QC Manager