

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-04-21 11:36:59
 Date of Next Testing: 2029-04-20 11:36:59
 Product Name: **L-Proline**
 CAS Number: 147-85-3
 Specifications & Purity: $\geq 99\%$
 Lot #: D2514436
 SKU #: **P108709**
 Version: **3**
 Analysis #: **486007**
 Storage Temperature: Protected from light, Room temperature

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	11.9-12.5 (%)	12.19700 %
Ignition Residue	0-0.1 (%)	0.00000 %
Carbon by Elemental Analysis	51.1-53.2 (%)	52.11700 %
pH	5.9-6.9	5.98000
Purity(Nonaqueous Titration)	98.5-101.5 (%)	99.98000 %
Purity(HPLC)(CAD)	99-100 (%)	99.63200 %
Specific Rotation $[\alpha]_{20/D(c=4 \text{ in H}_2\text{O})}$	-86--84 (°)	-84.10000 °
Loss on drying	0-0.3 (%)	0.14121 %
Appearance (P108709)	white crystals or crystalline powder or powder	white crystals or crystalline powder or powder
Solubility in H ₂ O , Colorless ,Clear ,50 mg/mL in H ₂ O	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager