

Certificate of Analysis

Date of Testing: 2022-02-24 14:29:47

Date of Next Testing: 2026-02-23 14:29:47

Product Name: **L-Proline**

CAS Number: 147-85-3

Specifications & Purity: 99%

Lot #: B2222095

SKU #: **P108709**

Analysis: **064809**

Storage Temperature: Protected from light

Parameter	Limit Values	Result
Specific Rotation [α] ₂₀ /D(c=4 in H ₂ O)	-86--84 (°)	-84.36 °
Nitrogen by Elemental Analysis	11.9-12.5 (%)	12.30 %
Ignition Residue	0-0.1 (%)	0.05 %
Carbon by Elemental Analysis	51.1-53.2 (%)	52.10 %
Purity(Nonaqueous Titration)	98.5-101.5 (%)	100.50 %
Loss on drying	0-0.3 (%)	0.15 %
Purity(HPLC)(CAD)	99-100 (%)	99.86 %
PH	5.9-6.9	5.90
Appearance (P108709)	White powder	White powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless ,Clear ,50 mg/mL in H ₂ O	pass	Pass



John Su
QA & QC Manager