

Certificate of Analysis

Date of Testing: 2023-02-18 12:41:17

Date of Next Testing: 2027-02-17 12:41:17

Product Name: **L-Proline**

CAS Number: 147-85-3

Specifications & Purity: 99%

Lot #: B2311046

SKU #: **P108709**

Analysis: **177381**

Storage Temperature: Protected from light

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	11.9-12.5 (%)	12.32 %
Ignition Residue	0-0.1 (%)	0.04 %
Carbon by Elemental Analysis	51.1-53.2 (%)	52.41 %
PH	5.9-6.9	6.03
Purity(NonaqueousTitration)	98.5-101.5 (%)	99.99 %
Loss on drying	0-0.3 (%)	0.13 %
Purity(HPLC)(CAD)	99-100 (%)	99.40 %
Specific Rotation [α] ₂₀ /D(c=4 in H ₂ O)	-86--84 (°)	-84.41 °
Solubility in H ₂ O , Colorless ,Clear ,50 mg/mL in H ₂ O	pass	Pass
Appearance (P108709)	White powder	White powder
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager