

Certificate of Analysis

Date of Testing: 2025-08-29 15:26:44

Date of Next Testing: 2029-08-28 15:26:44

Product Name: **L-Proline**

CAS Number: 147-85-3

Specifications & Purity: $\geq 99\%$

Lot #: H2527480

SKU #: **P108709**

Version: **3**

Analysis #: **551968**

Storage Temperature: Protected from light, Room temperature

Parameter	Limit Values	Result
Specific Rotation [a] _D ²⁰ (c=4 in H ₂ O)	-86--84 (°)	-84.90 °
Nitrogen by Elemental Analysis	11.9-12.5 (%)	12.15 %
Ignition Residue	0-0.1 (%)	0.00 %
Carbon by Elemental Analysis	51.1-53.2 (%)	51.96 %
PH	5.9-6.9	6.14
Purity(Nonaqueous Titration)	98.5-101.5 (%)	99.54 %
Loss on drying	0-0.5 (%)	0.26 %
Purity(HPLC)(CAD)	99-100 (%)	99.67 %
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



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