

Certificate of Analysis

Date of Testing: 2024-03-25 15:46:25
 Date of Next Testing: 2028-03-24 15:46:25
 Product Name: **L-Proline**
 CAS Number: 147-85-3
 Specifications & Purity: 99%
 Lot #: C2421626
 SKU #: **P108709**
Analysis: **328966**
 Storage Temperature: Protected from light

Parameter	Limit Values	Result
Specific Rotation [α] ₂₀ /D(c=4 in H ₂ O)	-86--84 (°)	-84.71°
Purity(HPLC)(CAD)	99-100 (%)	99.14%
Nitrogen by Elemental Analysis	11.9-12.5 (%)	11.91%
Ignition Residue	0-0.1 (%)	0.10%
Carbon by Elemental Analysis	51.1-53.2 (%)	51.22%
PH	5.9-6.9	5.96
Purity(Nonaqueous Titration)	98.5-101.5 (%)	98.51%
Loss on drying	0-0.3 (%)	0.21%
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