

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2024-05-20 16:26:03
Date of Next Testing:	2028-05-19 16:26:03
Product Name:	L-Proline
CAS Number:	147-85-3
Specifications & Purity:	99%
Lot #:	E2411302
SKU #	P108709
Version	2
Analysis #:	352389
Storage Temperature:	Protected from light

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	11.9-12.5 (%)	11.95 %
Ignition Residue	0-0.1 (%)	0.01 %
Carbon by Elemental Analysis	51.1-53.2 (%)	51.20 %
PH	5.9-6.9	6.04
Purity(NonaqueousTitration)	98.5-101.5 (%)	98.60 %
Loss on drying	0-0.3 (%)	0.10 %
Purity(HPLC)(CAD)	99-100 (%)	99.35 %
Specific Rotation [α] ₂₀ /D(c=4 in H ₂ O)	-86--84 (°)	-84.20°
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