

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-05-23 17:19:49
 Date of Next Testing: 2029-05-22 17:19:49
 Product Name: **L-Proline**
 CAS Number: 147-85-3
 Specifications & Purity: Animal Free, USP, Ph.Eur., for cell culture, ≥99%
 Lot #: E2521639
 SKU #: **P120032**
 Version: **1**
 Analysis #: **517268**
 Storage Temperature: Protected from light, Room temperature

Parameter	Limit Values	Result
Ammonia (NH ₄)	0-0.02 (%)	0.00000 %
PH(10% in water)	5.9-6.9	6.20000
Ignition Residue(Ash)	0-0.1 (%)	0.00500 %
Chloride (Cl ⁻)	0-0.02 (%)	0.00000 %
Heavy metal (as Pb)	0-10 (ppm)	0.00000 ppm
Specific Rotation [α] ₂₀ /D(c=4 in H ₂ O)(calcd.on anh.substance)	-86--84 (°)	-84.10000 °
Endotoxin Assay	0-1 (EU/mg)	0.00000 EU/mg
Sulfate(SO ₄ ²⁻)	0-0.02 (%)	0.00000 %
Specific Rotation [α] ₂₅ /D (USP: 25 °C in c=4 in H ₂ O)	-86.3--84.3 (°)	-85.00000 °
Iron(Fe)	0-10 (ppm)	0.00000 ppm
Loss on drying	0-0.3 (%)	0.02000 %
Purity(as dry basis)	98.5-101.5 (%)	99.98000 %
Appearance (P120032)	white powder	White powder
Cell Culture Test	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Ninhydrin-Positive Substances	Conforms	Conforms
Origin	non-animal source	non-animal source
Solubility in H ₂ O , clear colorless , 1 g / 10 ml in water	pass	Pass



QualityAssurance@aladdinsci.com

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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager