



CERTIFICATE OF ANALYSIS

Product Name: **L-Proline**
USP Grade

Catalog Number: P015 Molecular Formula: C₅H₉NO₂
Lot Number: 09182015 Formula Weight: 115.13
CAS Number: 147-85-3 Storage: 15 to 30°C
Source: China, Corn Retest Date: 28-FEB-2023

<u>Test</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White Powder	PASS
Identity Test	Passes Test	PASS
Assay	98.5 - 101.5 %	99.7 %
Specific Rotation	-84.3° to -86.3°	-85.0°
Loss on drying	≤ 0.4 %	0.1 %
Residue on ignition	≤ 0.4 %	< 0.1 %
Chloride (Cl)	≤ 0.05 %	< 0.05 %
Sulfate (SO ₄)	≤ 0.03 %	< 0.03 %
Iron (Fe)	≤ 0.003 %	< 0.003 %
Heavy Metals	≤ 0.0015 %	< 0.0015 %
Solubility (10%, H ₂ O)	Clear, Colorless Solution	PASS
pH (10%, H ₂ O)	Record	6.21
Endotoxin (40 mg/L)	≤ 0.125 EU/mL	< 0.1 EU/mL

This product meets or exceeds the quality standards established by Caisson Laboratories, Inc.

This product is intended for Laboratory Use Only

Prepared by:

Reviewed by:

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Quality Control

10/02/2018