



Certificate of Analysis

L-Proline USP

Catalog Number: PL1002
Lot Number: 1120701
CAS Number: 147-85-30
Synonym(s): (S)-Pyrrolidine-2-carboxylic acid
Molecular Formula: C₅H₉NO₂
Molecular Weight: 115.13
Storage: 15°C – 30°C
Date of Manufacture: July 6, 2016
Retest Date: July 5, 2021

Test	Specification	Result
Appearance	Off-white to white powder	Conforms
Assay	98.50% to 101.50%	100.00%
Identification	Positive	Conforms
Specific rotation	-86.30° to -84.30°	-85.2°
Loss of drying	≤0.40%	0.11%
Residue on ignition	≤0.40%	0.07%
Chloride	≤0.050%	<0.05%
Sulfate	≤0.03%	<0.03%
Heavy metals	≤10 ppm	<10ppm
Arsenic	≤1.00ppm	<1.00ppm
Cadmium	≤1.00ppm	<1.00ppm
Iron	≤30.0ppm	<30.0ppm
Lead	≤1.00ppm	<1.00ppm
Mercury	≤1.00ppm	<1.00ppm
Total plate count	≤1,000cfu/g	<1,000cfu/g
Yeast and mold	≤100cfu/g	<100cfu/g
Coliforms	≤100cfu/g	<100cfu/g
Salmonella	Negative	Negative

This lot meets USP31 requirements.

Approved by:

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Gojira Fine Chemicals, LLC

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