



Specification

L-Proline USP

Catalog Number: PL1002
CAS Number: 147-85-30
Synonym(s): (S)-Pyrrolidine-2-carboxylic acid
Molecular Formula: C₅H₉NO₂
Molecular Weight: 115.13
Storage: 15°C – 30°C
Retest Period: Five years from the date of manufacture

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

All lots meet the specifications for USP31.

Approved:

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