



ISO 9001 CERTIFIED
ISO 13485 CERTIFIED

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CERTIFICATE OF QUALITY

Product: L-SERINE
Grade: USP GRADE
Code: 1B1103
Appearance: White powder
Mol. Formula: C3H7NO3
Mol. Weight: 105.09

Description:

<u>Assay:</u>	<u>Min</u>	<u>Max</u>	<u>Units</u>	<u>Disposition</u>
Chloride		0.05	%	PASS
Chromatographic Purity	PASS		P/F	PASS
Heavy Metals		0.0015	%	PASS
Identification	PASS		P/F	PASS
Iron		0.003	%	PASS
Loss on Drying		0.2	%	PASS
Purity (Anhydrous Basis)	98.5	101.5	%	PASS
Residue on Ignition		0.1	%	PASS
Specific Rotation	+14.0	+15.6	degrees	PASS
Sulfate		0.03	%	PASS

Storage: Store at room temperature. Protect from moisture.

1B1103USP

This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature:

Title:

QC MANAGER

Date:

7/11/2012