



ISO 9001 CERTIFIED  
ISO 13485 CERTIFIED

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CERTIFICATE OF QUALITY

**Product:** L-VALINE  
**Grade:** USP GRADE  
**Code:** 1B1102  
Appearance: White solid  
Mol. Formula: C5H11NO2  
Mol. Weight: 117.15

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		0.3	%	PASS
pH (5%, Water) @25C	5.5	7.0		PASS
Purity (Dried)	98.5	101.5	%	PASS
Residue on Ignition		0.1	%	PASS
Specific Rotation	+26.6	+28.8	degrees	PASS
Sulfate		0.03	%	PASS

Storage: Store at room temperature. Protect from moisture.

*1B1102USP*

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:

6/13/2012