



ISO 9001 CERTIFIED
ISO 13485 CERTIFIED

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CERTIFICATE OF QUALITY

Product: L-CYSTEINE HCl
Grade: HIGH PURITY GRADE
Code: 0206
Appearance: Fine white crystalline powder
Mol. Formula: C3H7NO2S.HCl.H2O
Mol. Weight: 175.63

Description:

<u>Assay:</u>	<u>Min</u>	<u>Max</u>	<u>Units</u>	<u>Disposition</u>
Arsenic		< 0.00015	%	PASS
Chloride Content	19.8	20.8	%	PASS
Heavy Metals (as Pb)		< 0.0015	%	PASS
Iron		< 0.003	%	PASS
Loss on Drying	8.0	12.0	%	PASS
Purity	99.0		%	PASS
Residue on Ignition		0.4	%	PASS
Specific Rotation	+5.7	+6.8		PASS
Sulfate		< 0.03	%	PASS

Storage: Store at room temperature. Protect from moisture.

0206HPG

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