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CERTIFICATE OF QUALITY

Product: L-CYSTEINE

Grade: HIGH PURITY GRADE

Code: J994

Appearance: White crystalline powder

Mol. Formula: C3H7NO2S

Mol. Weight: 121.16

**Description:** 

Assay:	<u>Min</u>	<u>Max</u>	<u>Units</u>	<b>Disposition</b>
Arsenic		0.0002	%	PASS
Assay	98.0	102.0	%	PASS
Chloride		0.05	%	PASS
Heavy Metals		0.0010	%	PASS
Iron		0.003	%	PASS
Loss on Drying		0.5	%	PASS
Residue on Ignition		0.2	%	PASS
Specific Rotation	+7	+9	degrees	PASS
Sulfate		0.03	%	PASS

Storage: Store at room temperature. Protect from moisture.

J994HPG This signature indicates that the above material has met all quality

specifications and has been reviewed by a quality representative.

Signature: You Crocke

<u>Title:</u> <u>QC MANAGER</u> Date: <u>6/13/2012</u>