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CERTIFICATE OF QUALITY

Product: L-CYSTINE

Grade: U.S. PHARMACOPEIA REAGENT

Code: J993

Appearance: White crystals or crystalline powder

Mol. Formula: C6H12N2O4S2

Mol. Weight: 240.31

Description:

Assay:	<u>Min</u>	<u>Max</u>	<u>Units</u>	<u>Disposition</u>
Loss on Drying		0.2	%	PASS
Residue on Ignition		0.1	%	PASS
Specific Rotation	-225	-215	degrees	PASS

Storage: Store at room temperature. Protect from moisture.

j993usp 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>