INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	BIO-117
Lot Number	001192-201124
Product	**L-Cystine**
	$(H\text{-}L\text{-}Cys\text{-}OH)_2$
CAS Number	56-89-3
Molecular Formula	$C_6H_{12}N_2O_4S_2$
Molecular Weight	240.3

Appearance	White crystals or crystalline powder
Heavy Metals	< 10 ppm (Pb)
Anion	Chloride (Cl^-) : < 0.020% Sulfate (SO_4^{2-}) : < 0.020%
Cation	Ammonium (NH_4) : < 0.020% Iron (Fe) : < 10 ppm Arsenic (As203) : < 1 ppm
pH	6
Optical Rotation	$[a]_D^{20}$ = -220 °
Loss on Drying	0.12%
Other Amino Acids	Chromatographically not detectable
Residue On Ignition	0.07% (sulfated)
Assay by titration	99.6% (anhydrous basis)
Storage	Store at RT

Prepared by:
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