



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	BIO-117
Lot Number	001192-2811137
Product	L-Cystine (H-L-Cys-OH) ₂ (-)-3,3'-Dithiobis(2-aminopropionic acid)
CAS Number	56-89-3
Molecular Formula	C ₆ H ₁₂ N ₂ O ₄ S ₂
Molecular Weight	240.3

Appearance	White crystals or crystalline powder
Heavy Metals	< 10 ppm
Arsenic (As ₂ O ₂)	< 1 ppm
Anion	Chloride (Cl ⁻): < 0.020% Sulfate (SO ₄): < 0.020%
Cation	Ammonium (NH ₄): < 0.020% Iron (Fe): < 10 ppm
pH	6.0
Optical Rotation	[α] _D ²⁰ = -218.1°
Infrared Spectrum	Conforms to structure
Transmission	98.7%
Loss on Drying	0.11%
Other Amino Acids	Chromatographically not detectable
Residue On Ignition	0.05% (sulfated)
Assay by titration	99.8%
Storage	Store at RT