



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	04-1079
Lot Number	20070201
Product	L-Cysteine ethyl ester hydrochloride
	L-Cys-OEt•HCl
CAS Number	868-59-7
Molecular Formula	C ₅ H ₁₁ NO ₂ S•HCl
Molecular Weight	185.7

Appearance	White crystalline powder
Heavy Metals	5 ppm
Arsenic (As ₂ O ₂)	0.5 ppm
Anion	Chloride (Cl ⁻): 19.04% Sulfate (SO ₄): 0.015%
Cation	Ammonium (NH ₄): 0.015%
pH	2.5-3.5
Optical Rotation	[α] _D ²⁰ = -13.1°
Transmission	98.2%
Loss on Drying	0.25%
Other Amino Acids	Chromatographically not detectable
Residue On Ignition	0.08%
Assay by titration	99.2%
Storage	Store at 0-8 °C