



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	BIO-116
Product	L-Cysteine
Lot Number	CB100528 L-Cys-OH (R)-2-Amino-3-mercaptopropionic acid
CAS Number	52-90-4
Molecular Formula	C ₃ H ₇ NO ₂ S
Molecular Weight	121.16

Appearance	White crystalline powder
Heavy Metals	< 10 ppm
Arsenic (As₂O₂)	< 1 ppm
Anion	Chloride (Cl ⁻): < 0.040% Sulfate (SO ₄ ²⁻): < 0.030%
Cation	Ammonium (NH ₄): < 0.020% Iron (Fe): < 10 ppm
pH	4.9
Optical Rotation	[α] _D ²⁰ = +9.0°
Infrared Spectrum	Conforms to structure
Transmission	98.5%
Loss on Drying	0.27%
Other Amino Acids	Chromatographically Not detectable
Residue On Ignition	0.06%
Assay by titration	99.8% (anhydrous basis)
Storage	Store at RT

Prepared by:
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