



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	BIO-458
Lot Number	001192-180102
Product	Acetyl-L-cysteine
	Ac-L-Cys-OH
	(R)-2-Acetamido-3-mercaptopropionic acid
CAS Number	616-91-1
Molecular Formula	C ₅ H ₉ NO ₃ S
Molecular Weight	163.2

Appearance	White crystals or crystalline powder
Melting Point	108-109 °C
Heavy Metals	< 10 ppm (as Pb)
Anion	Chloride (Cl ⁻): < 0.040% Sulfate (SO ₄ ²⁻): < 0.030%
Cation	Arsenic (As ₂ O ₃): < 1 ppm Ammonium (NH ₄ ⁺): < 0.020% Iron (Fe): < 10 ppm
pH	2.2
Optical Rotation	[α] _D ²⁰ = + 23.4°
Transmission	99.9% (State of solution)
Loss on Drying	0.06%
Other Amino Acids	Chromatographically not detectable
Residue On Ignition	0.06% (Sulfated)
Assay by titration	99.9%
Storage	Store at RT

Prepared by:
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Ramesh Mandadi
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