



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number 04-1081
Lot Number 001192-181113
Product **L-Cysteine hydrochloride monohydrate**

L-Cys-OH•HCl•H₂O

CAS Number 7048-04-6
Molecular Formula C₃H₇NO₂S•HCl•H₂O
Molecular Weight 175.63

Appearance White crystalline powder
Heavy Metals < 10 ppm
Anion Chloride (Cl⁻) : 20.12%
Sulfate (SO₄²⁻) : < 0.02%
Cation Ammonium (NH₄⁺) : < 0.02%
Iron (Fe) : < 10 ppm
Arsenic (As₂O₃) : < 1 ppm
Optical Rotation [α]_D²⁰ = +6.0°
Transmission 99%
Loss on Drying 10.1%
Related Substances Individual impurity : < 0.5%
Total impurities : < 2%
Residue On Ignition < 0.1%
Assay by titration 99.8%
Grade USP
Storage Store at RT

Prepared by:
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VP