

Chem-Impex International, Inc.

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Certificate of Analysis

Catalogue Number	00085
Product	L-Cysteine hydrochloride monohydrate
Lot Number	001192-141125
	L-Cys-OH•HCl•H ₂ O
	(R)-2-Amino-3-mercaptopropionic acid hydrochloride monohydrate
CAS Number	7048-04-6
Molecular Formula	C ₃ H ₇ NO ₂ S•HCl•H ₂ O
Molecular Weight	175.63

Heavy Metals	< 10 ppm
Arsenic (As₂O₂)	< 1 ppm
Anion	Chloride (Cl-) : 20.03% Sulfate (SO ₄) : < 0.02%
Cation	Ammonium (NH ₄) : < 0.002% Iron (Fe) : < 10 ppm
pH	1.59
Optical Rotation	[α] _D ²⁰ = 5.93 °
Infrared Spectrum	Conforms to structure
Transmission	99%
Loss on Drying	11.39%
Organic Volatile Impurities	Passes test
Other Amino Acids	Not detected
Residue On Ignition	0.08%
Assay by titration	99.59% (Anhydrous basis)
Grade	Meets USP Specification
Storage	Store at RT

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Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

Bala Kumar
Quality Control Manager