



# INDOFINE Chemical Company, Inc.

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## Certificate of Analysis

Catalogue Number	04-1769
Lot Number	153
Product	<b>L-Histidine hydrochloride monohydrate</b>
	L-His-OH•HCl•H <sub>2</sub> O
CAS Number	5934-29-2
Molecular Formula	C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> •HCl•H <sub>2</sub> O
Molecular Weight	209.6

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Appearance	White crystals or crystalline powder
Heavy Metals	< 10 ppm
Arsenic (As <sub>2</sub> O <sub>2</sub> )	< 1 ppm
Anion	Chloride (Cl <sup>-</sup> ): 16.66 to 17.08% Sulfate (SO <sub>4</sub> <sup>2-</sup> ): < 300 ppm
Cation	Ammonium (NH <sub>4</sub> ): < 200 ppm Iron (Fe): < 10 ppm
pH	4.0
Optical Rotation	[α] <sub>D</sub> <sup>20</sup> = +9.1°
Infrared Spectrum	Conforms to structure
Transmission	> 98%
Loss on Drying	< 0.2%
Other Amino Acids	None detected by TLC
Residue On Ignition	0.03%
Assay by titration	100.1% (anhydrous basis)
Storage	Store at RT

Prepared by:

*Ramesh Mandadi*

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Director of Operations

Reviewed and approved by:

*Sujata Moton*

S. Moton

VP