



# INDOFINE Chemical Company, Inc.

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## Certificate of Analysis

Catalogue Number 04-1769  
Lot Number 001192-130705  
Product **L-Histidine hydrochloride monohydrate**

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): 16.9 Sulfate (SO <sub>4</sub> ): < 0.02%
Cation	Ammonium (NH <sub>4</sub> ): < 0.02% Iron (Fe): < 10 ppm
pH	3.9
Optical Rotation	[α] <sub>D</sub> <sup>20</sup> = +9.3°
Infrared Spectrum	Conforms to structure
Transmission	99.0%
Loss on Drying	0.15%
Other Amino Acids	Chromatographically not detectable
Residue On Ignition	0.04%
Assay by titration	99.70% (anhydrous basis)
Storage	Store at RT

Prepared by:  
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Sujata Moton  
VP