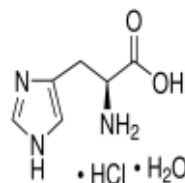


## Product Specification

Product Name:  
L-Histidine monohydrochloride monohydrate -

Product Number: **H4036**  
CAS Number: 5934-29-2

Formula:  $C_6H_9N_3O_2 \cdot HCl \cdot H_2O$   
Formula Weight: 209.63 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Appearance of Solution	Pass
Solubility (Turbidity)	Clear
1.0g in 10 mL of water	
Solubility (Color)	Colorless
1.0g in 10 mL of water	
Solubility (Form)	Solution
1.0g in 10 mL of water	
Heavy Metals	≤ 10 ppm
Identification A (EP)	Pass
Identification B (EP)	Pass
Identification C (EP)	Pass
Identification F (EP)	Pass
Iron (Fe)	≤ 10 ppm
Loss on Drying	7.0 - 10.0 %
Chloride	16.66 - 17.08 %
Ammonium	≤ 0.02 %
Assay	99.0 - 101.0 %
JP	
Clarity & Color of Solution	Conforms
Clear, colorless solution	
Cytotoxicity	Pass
Related Substances	Pass
Water (by Karl Fischer)	7.2 - 10.0 %

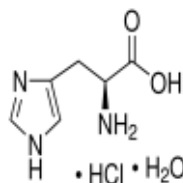
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TEST	Specification
Ninhydrin-Positive Substances	Conforms
pH	3.0 - 5.0
5.0% aqueous	
pH	3.5 - 4.5
1g in 10 mL water	
Endotoxin Assay	≤ 1 EU/mg
Residue on Ignition	≤ 0.10 %
Arsenic (As)	≤ 1.0 ppm
Specific Rotation (EP)	9.2 - 10.6 °
c = 11, 6N HCl, dried basis, 20°C	
Sulfate (SO <sub>4</sub> )	≤ 0.020 %

Specification: PRD.1.ZQ5.1000051119

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