

Certificate of Analysis

Product Description: L-Histidine Monohydrochloride Monohydrate
Catalog Number: 0104-7X2; 0104-700; 4060312; 4060322
Lot: QR14798

Formula: $C_6H_9N_3O_2 \cdot HCl \cdot H_2O$
CAS #: 5934-29-2
Physical Description: White Crystalline Powder

Formula Weight: 209.6
Storage: 15-30°C

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
pH (2% aq soln)	3 - 5	3.76
Loss on Drying	$\leq 1\%$	0.07%
Optical Rotation	$+9.5^\circ \pm 1^\circ$ (c = 1, 6N HCl)	$+9.8^\circ$
Expiration Date	Month/Day/Year	08/10/2019

Assay: 99.8%
Residue on Ignition: 0.04%
Chloride: 16.66% to 17.08%
Sulfate: <0.02%
Transmittance: 98.5%
Other Amino Acids: Conforms
Ammonium: <0.02%
Heavy Metals: <10 ppm
Arsenic: <1 ppm
Cadmium: <0.1 ppm
Lead: <0.5 ppm
Mercury: <0.3 ppm
Iron: 5 ppm
Total Plate Count: <1000 cfu/g
Yeast & Mold: <100 cfu/g
Mesh Size: >90% thru 20 mesh
E. coli: Negative
Salmonella: Negative
Staphylococcus aureus: Negative
Bulk Density: 0.73 g/ml
Tap Density: 0.77 g/ml



10/24/2017 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

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