

## Certificate of Analysis

**Product Description:** L-Histidine Monohydrochloride Monohydrate  
**Catalog Number:** 01047X2; 0104700; 4060312; 4060322  
**Lot:** SR02338

**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 (145 - 150°C, 3 hour)	7 - 10%	0.07%
Optical Rotation	$+9.5^\circ \pm 1^\circ$ (c = 1, 6N HCl)	$+9.8^\circ$
Expiration Date	Month/Day/Year	02/09/2022

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



02/11/2020 - John Huang, PhD  
MP Biomedicals, LLC.  
Quality Control Manager

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