

**MP Biomedicals, LLC**

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Certificate of Analysis

Product Description: L-Histidine Monohydrochloride Monohydrate, cell culture reagent

Catalog Number: 194685

Lot: R26318

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: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
pH (2% aq soln)	3 - 5	3.8
Loss on Drying	$\leq 1\%$	0.13%
Optical Rotation	$+9.5^\circ \pm 1^\circ$ (c = 1, 6N HCl)	$+9.2^\circ$

E.coli: Negative

Salmonella: Negative

Staphylococcus aureus: Negative/10 g

Total Plate Count: <1,000 cfu/g

Yeast & Mold: <100 cfu/g

Arsenic: 0.19 ppm

Heavy Metals: 7.2 ppm

Iron: 7.8 ppm

Sulfate: <0.010%

Ammonia: 0.011%

Chloride: 16.9%

Clarity & Color of Solution: 98.5%

Assay: 99.62%

Residue on Ignition: 0.04%

Christina Marotta

11/30/2009 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

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Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site

Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)