

MP Biomedicals, LLC29525 Fountain Parkway
Solon, Ohio 44139Telephone: 440/337-1200
Toll Free: 800/854-0530

Certificate of Analysis

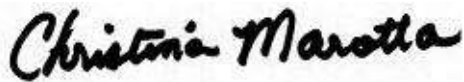
Product Description: L-Histidine Monohydrochloride Monohydrate
Catalog Number: 101957
Lot: M6734

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	4.0
Loss on Drying	$\leq 1\%$	0.16%
Optical Rotation	$+9.5^\circ \pm 1^\circ$ (c = 1, 6N HCl)	$+9.3^\circ$

E.coli: Negative
Salmonella: Negative
Staphylococcus aureus: Negative
Total Plate Count: <1,000 cfu/g
Yeast & Mold: <100 cfu/g
Arsenic: <1.000 ppm
Heavy Metals: <10 ppm
Iron: <10 ppm
Sulfate: <0.002%
Ammonia: 0.02%
Chloride: 17.080%
Assay: 99.60%
Residue on Ignition: 0.04%
Transmittance: >98%
Cadmium: <0.1000 ppm
Lead: <0.5000 ppm
Mercury: <0.3000 ppm
Coliforms: <100
Mesh size:
- >90% thru 20 mesh
- 83.1% thru 40 mesh
Bulk density: 0.75 g/ml
Tap density: 0.89 g/ml



05/15/2013 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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<mailto:biotech@mpbio.com>
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