



MP Biomedicals, LLC

29525 Fountain Parkway  
Solon, Ohio 44139

Telephone: 440/337-1200  
Toll Free: 800/854-0530

Fax: 440/337-1180  
web: www.mpbio.com

## Certificate of Analysis

**Product Description:** L-Histidine, Free Base, cell culture reagent.

**Catalog Number:** 194684.

**Lot:** MR28285.

**Formula:** C<sub>6</sub>H<sub>9</sub>N<sub>3</sub>O<sub>2</sub>

**CAS #:** 71-00-1

**Physical Description:** White Crystalline Powder

**Formula Weight:** 155.16

**Storage:** Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99%	99.75%
FTIR	Conforms to Standard	Conforms to Standard
pH (1% aq soln)	7.0 - 8.5	7.8
Loss on Drying	≤0.5%	0.14%
Optical Rotation (c=10, 4N HCl)	+11.0° to +13.5°	+12.3°

State of Solution: Clear, Colorless, 98.9%

Chloride (Cl): <0.02%

Ammonium (NH<sub>4</sub>): <0.02%

Sulfate (SO<sub>4</sub>): <0.02%

Iron (Fe): <10 ppm

Heavy Metals (Pb): <10 ppm

Arsenic (As<sub>2</sub>O<sub>3</sub>): <1 ppm

Residue on Ignition: 0.04%

*Christina Marotta*

06/21/2011 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

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mailto:biotech@mpbio.com

<http://www.mpbio.com>

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