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## Certificate of Analysis

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

**Catalog Number:** 194684

**Lot:** 4585K

**Formula:**  $C_6H_9N_3O_2$

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

**Physical Description:** White Powder

**Formula Weight:** 155.16

**Storage:** Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	#99%	99.9%
FTIR	Conforms to Standard	Conforms to Standard
pH (1% aq soln)	7.0 - 8.5	7.8
Loss on Drying	#0.5%	0.05%
Optical Rotation (c=10, 4N HCl)	+11.0° to +13.5°	+13.2°

Chloride: #0.020%

Sulfate: #0.020%

Iron: #10 ppm

Heavy Metals: #5 ppm

Arsenic: #1 ppm

Lead: #5 ppm

Residue on Ignition: 0.03%

Foreign Amino Acids: #0.5%

08/17/2009 - Robert Beattie

MP Biomedicals, LLC.

Technical Director

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

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