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## Certificate of Analysis

**Product Description:** L-Arginine Hydrochloride, cell culture reagent

**Catalog Number:** 194627

**Lot:** R26608

**Formula:** C<sub>6</sub>H<sub>14</sub>N<sub>4</sub>O<sub>2</sub>·HCl

**CAS #:** 1119-34-2

**Physical Description:** White Crystalline Powder

**Formula Weight:** 210.7

**Storage:** Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
Optical Rotation (c=8, 2 N HCl)	+20° to +23°	+22.4°
Loss on Drying	≤0.5%	0.11%
Melting Point	220 - 230°C	220.7°C

Assay: 99.65%

Chloride: 16.8%

Chromatog. Purity: Conforms to USP 31

Organic Volatile Impurities: Conforms to USP 31

Residual Solvents: Conforms to USP 31

Residue on Ignition: 0.04%

Sulfate: #0.007%

Heavy Metals: 10 ppm

E coli: Negative

Salmonella: Negative

Staphylococcus aureus: Negative

Total Plate Count: <1000 cfu/g

Yeast & Mold: <100 cfu/g

*Christina Marotta*

11/19/2009 - 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

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