

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

Certificate of Analysis

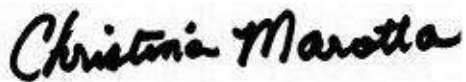
Product Description: L-Aspartic Acid
Catalog Number: 100809
Lot: MR29903

Formula: C₄H₇NO₄
CAS #: 56-84-8
Physical Description: White Powder

Formula Weight: 133.10
Storage: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99%	99.3%
FTIR	Conforms to Standard	Conforms to Standard
Optical Rotation	+21 to +27° (c=1, 1N HCl)	+25.21°
Loss on Drying	≤0.5%	0.04%

Amino Acids: 99.2 g/100g
Ammonium: <0.02%
Chloride: <0.02%
Residue on Ignition: 0.05%
Sulfate: <0.02%
Arsenic: Not Detected
Cadmium: Not Detected
Heavy Metals: <10 ppm
Iron: <10 ppm
Lead: 0.064 ppm
Mercury: Not Detected
Coliforms: <100
E. coli: Negative
Salmonella: Negative
Staphylococcus aureus: Not Detected
Total Plate Count: <2000 cfu/g
Yeast & Mold: <100 cfu/g
Bulk Density: 0.62 g/ml
Particle Size:
- 95.2% thru 150 mesh
- 80.0% thru 200 mesh
Tap Density: 1.16 g/ml



11/27/2012 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

This is an electronically generated document
<mailto:biotech@mpbio.com>
<http://www.mpbio.com>

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)