



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-Proline, USP_
Catalog Number: 199543_
Lot: Typical_

Formula: C₅H₉NO₂

CAS #: 147-85-3

Physical Description: White Powder

Formula Weight: 115.13

Storage: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Assay	98.5-101.5%	98.5-101.5%
Specific Rotation (40mg/ml H ₂ O)	-83.7° to -85.7°	-83.7° to -85.7°
Loss on Drying	NMT 0.4%	NMT 0.4%
Residue on Ignition	NMT 0.4%	NMT 0.4%
Chloride	NMT 0.05%	NMT 0.05%
Sulfate	NMT 0.03%	NMT 0.03%
Arsenic	NMT 1.5 ppm	NMT 1.5 ppm
Iron	NMT 0.03%	NMT 0.03%
Heavy Metals	NMT 0.0015%	NMT 0.0015%
Organic Volatile Impurities	Passes	Passes

06/18/2004 - Joseph Dietz, Ph.D.

MP Biomedicals, LLC.
Technical Director

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<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)