



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-Glutamine, cell culture reagent
Catalog Number: 194678
Lot: R27690

Formula: C₅H₁₀N₂O₃

CAS #: 56-85-9

Physical Description: Free Flowing, White Powder

Formula Weight: 146.10

Storage: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99%	99.5%
Residue on Ignition	<0.1%	0.06%
Loss on Drying	<0.5%	0.08%
Optical Rotation	+30 to +35° (c=3.5, 1N HCl)	+35°
pH (2%, aq soln)	4.5 - 6.5	5.7

Chloride (Cl): 0.01%
Ammonium (NH₄): 0.07%
Sulfate (SO₄): 0.007%
Iron (Fe): 8 ppm
Heavy Metals (Pb): 7 ppm
Arsenic (As₂O₃): 0.1 ppm
Endotoxin: <1 EU/mL

Christina Marotta

12/07/2010 - 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

