

MP Biomedicals, LLC

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Certificate of Analysis

Product Description: L-GLUTAMIC ACID, free acid_ Catalog Number: 101793_ Lot: 2000C_

Formula: C ₅ H ₉ NO ₄	Formula Weight: 147.13
CAS #: 56-86-0	Storage: Room Temperature
Physical Description: white crystalline powder	

Test	Specification	Result
Identity test	Passes	Passes
Purity	<u>≥</u> 99%	99%
Melting Point	190 - 205 ⁰ C	202 - 205°C
FTIR	Conforms to standard	Conforms to Standard
Moisture	Not more than 0.15%	Not more than 0.1%
Optical Rotation (C=10, 2N HCl)	30 ⁰ +/- 5 ⁰	Passes
Solubility (10% in 2N HCI)	Clear, colorless solution	Passes
Arsenic	Not more than 1.5 ppm	Passes
Heavy Metals (as Pb)	Not more than 20 ppm	Not more than 10 ppm

Approved - 09/14/99 by Joe Dietz MP Biomedicals, LLC. Technical D

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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)