



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

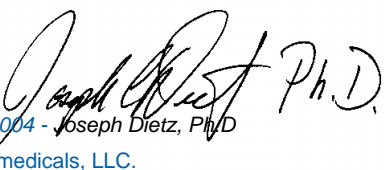
Product Description: Malonic Acid_
Catalog Number: 102238_
Lot: 2099H_

Formula: C₃H₄O₄
CAS #: 141-82-2
Physical Description: White Powder

Formula Weight: 104.06
Storage: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99%	99.67%
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	132 - 139°C	137 - 139°C

Loss on Drying 0.17%
Residue on Ignition 0.08%
Ca, Mg 136 ppm
Ni, Pb 13 ppm


01/29/2004 - Joseph Dietz, Ph.D.
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)