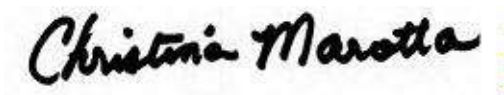


MP Biomedicals, LLC29525 Fountain Parkway
Solon, Ohio 44139Telephone: 440/337-1200
Toll Free: 800/854-0530

Certificate of Analysis

Product Description: Maleic Acid, Technical Grade
Catalog Number: 102232
Lot: M9354**Formula:** C₄H₄O₄
CAS #: 110-16-7
Physical Description: White Powder**Formula Weight:** 116.10
Storage: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to standard	Conforms to standard
Moisture	≤ 5%	0.1%
Melting Point	130-145°C	133°C
Solubility (1% aq.)	Clear and colorless	Passes

Assay: 99.9%
Fumaric acid: 0.1%07/09/2014 - Christina Marotta
MP Biomedicals, LLC.
Technical DirectorThis 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)