

**MP Biomedicals, LLC**

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Certificate of Analysis

Product Description: L-(+)-Lactic Acid, free acid_
Catalog Number: 190228_
Lot: 1737E_

Formula: C₃H₆O₃

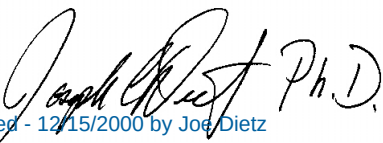
CAS #: 79-33-4

Physical Description: White Crystalline Powder

Formula Weight: 90.08

Storage: -0°C, desiccate

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99.0%	100%
Optical Rotation (c=2.5 H ₂ O)	+2.6° ± 2°	+0.93°
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	48 - 58°C	48.2 - 52.0°C
Moisture	≤1%	0.20% (KF)
Pyruvate Content	≤0.005%	0.004%


Approved - 12/15/2000 by Joe Dietz
MP Biomedicals, LLC.
Technical Director

This is an electronically generated document
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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)