



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: Medium 199 with Earle's Salts, with L-Glutamine, without Sodium Bicarbonate_
Catalog Number: 1020120; 1020122; 1020124_
Lot: C2491_

Formula: N/A CAS #: N/A Physical Description: Light-Orange Powder	Formula Weight: N/A Storage: 2 - 8°C
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Test	Specification	Result
Moisture Content	<1.2%	<1.25%
Osmolality without Sodium Bicarbonate	235 - 270 mOsm/kg	257 mOsm/kg
Osmolality adjusted with Sodium Bicarbonate	270 - 305 mOsm/kg	291 mOsm/kg
pH without Sodium Bicarbonate	4.2 - 5.2	4.59
pH adjusted with Sodium Bicarbonate	6.8 - 8.0	7.38
Functionality Test	Passes	Passes
Endotoxin	For Information Only	<0.1 EU/ml
Expiration Date	Month/Day/Year	11/30/2024

Particle Size: #90% thru 100 mesh
Mycoplasma: Negative
Animal Cell Culture
- Cell growth: Pass
- Viability: >90.0%

12/29/2020 - John Huang, PhD

MP Biomedicals, LLC.

Quality Control Manager

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<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)