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Certificate of Analysis

Product Description: Ham's F-12 (Modified) with L-Glutamine, without Sodium Bicarbonate_

Catalog Number: 1042120; 1042122; 1042124_

Lot: QR13512_

Formula: N/A

CAS #: N/A

Physical Description: Off-white Powder

Formula Weight: N/A

Storage: +4°C

Test	Specification	Result
Moisture Content	#1.5%	<1%
Osmolality	290 ± 30 mM/kg	287 mM/kg
pH w/o Bicarb	6.3 - 7.2	6.74
Functionality Test	Passes	Passes
Expiration Date	Month/Day/Year	03/06/2019

Solubility (10.64 g/L water): #30 minutes

Particle Size: >95% thru 100 mesh

pH (with 2500 mg/L NaHCO₃): 7.75

Osmolality (with 2500 mg/L NaHCO₃): 308 mM/kg

Endotoxin: <0.25 EU/ml

Mycoplasma: Negative

03/08/2017 - John Huang, PhD

MP Biomedicals, LLC.

Quality Control Manager

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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)