



Certificate of Analysis

Product: EMM w/o Dextrose

Catalog No.: 4110-1X2; 4110-112; 4110-132

Lot No.: 90796

Formulation:

Contents Per Liter: 3 g potassium hydrogen phthalate (14.7mM), 2.2g Na₂HPO₄ (15.5mM), 5g NH₄Cl (93.5mM), 1.05g MgCl₂·6H₂O (5.2mM), 14.7mg CaCl₂·2H₂O (99.8µM), 1g KCl (13.4mM), 0.04g Na₂SO₄ (0.28mM), 1mg pantothenic acid (4.2µM), 10mg nicotinic acid (81.2µM), 10mg *myo*-inositol (55.5µM), 10µg biotin (0.82µM), 0.5 mg boric acid (8.9µM), 0.4mg MnSO₄ (2.4µM), 0.4mg ZnSO₄·7H₂O (1.4µM), 0.2mg FeCl₂·6H₂O (0.7µM), 40µg molybdcic acid (0.25µM), 0.1mg KI (0.6µM), 40µg CuSO₄·5H₂O (0.016µM), 1mg citric acid (4.76µM).

Media

Add 12.35 g of Edinburgh's Minimal Medium w/o Dextrose to 1 liter of purified water. If required add appropriate Sp Supplements (a mixture of adenine, his, leu, ura, and lys (Sp supplements, Qbiogene Cat.# 4104-012)) and Carbon Source (Dextrose) for complete Edinburgh's Minimal Medium. Autoclaving is not recommended as it may cause precipitation. Sterile filter the solution into a sterile bottle.

Storage:

Store EMM w/o Dextrose powder at ambient temperature (15-30°C). EMM powder is hygroscopic, therefore minimize exposure to air to prolong storage of powder mixture. Store sterile medium at 4°C.

Shelf

Storage life in closed container: 4 years from the date the powder was made. Expiration Date: August, 2020.

Preparation:

Life:

Quality Assurance Information

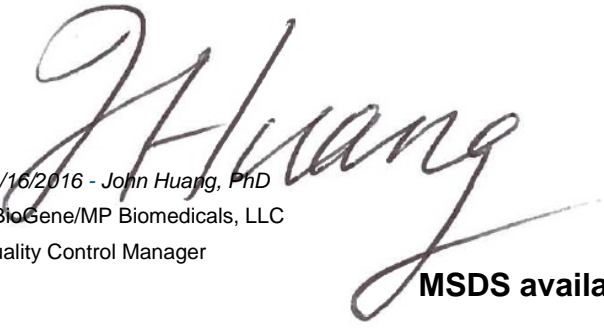
All MP Biomedicals products are thoroughly tested to ensure reliable results in the laboratory.

Specifications:

Test	Specification	Results
Identity Test	Passes	Passes
pH	4.6 - 6.4	5.45
Clarity	Clear	Clear
Presence of Thiamine HCL	No	No

Conclusions:

This lot of EMM w/o Dextrose is released for product sales.


08/16/2016 - John Huang, PhD
QBioGene/MP Biomedicals, LLC
Quality Control Manager

MSDS available online at www.mpbio.com