



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: Methionine/Choline Deficient Diet

Catalog No.: 960438

Formula: N/A

Purity: N/A

Physical Description: Powder

Lot No.: 8457

Formula Weight: N/A

Storage: Room Temperature

Analysis

Pass Tests

Components

Composition:

Ingredient

Sucrose
Corn Starch
Corn Oil
Alphacel Non-Nutritive Bulk
AIN 76 Mineral Mix (composition below)

Amount (g/kg diet)

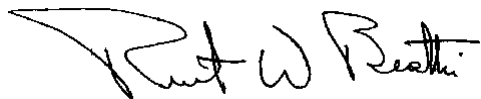
455.3 gm
200.0 gm
100.0 gm
30.0 gm
35.0 gm
(below is gm/kg of AIN 76 Mineral Mix)

Calcium Phosphate Dibasic
Sodium Chloride
Potassium Citrate Monohydrate
Potassium Sulfate
Magnesium Oxide
Manganese Carbonate (43-48% Mn)
Ferric Citrate (16-17% Fe)
Zinc Carbonate (70% ZnO)
Cupric Carbonate (53-55% Cu)
Potassium Iodate
Sodium Selenite
Chromium Potassium Sulfate
Sucrose, finely powdered
Dicalcium Phosphate
L-Alanine
L-Arginine Hydrochloride
L-Asparagine Monohydrate
L-Aspartic Acid
L-Cystine
L-Glutamic Acid
Glycine
L-Histidine Hydrochloride
L-Isoleucine
L-Leucine
L-Lysine Hydrochloride
L-Phenylalanine
L-Proline

500.00 gm
74.00 gm
220.00 gm
52.00 gm
24.00 gm
3.50 gm
6.00 gm
1.60 gm
0.30 gm
0.01 gm
0.01 gm
0.55 gm
118.00 gm
3.0 gm
3.5 gm
12.1 gm
6.0 gm
3.5 gm
3.5 gm
40.0 gm
23.3 gm
4.5 gm
8.2 gm
11.1 gm
18.0 gm
7.5 gm
3.5 gm

L-Serine	3.5 gm
L-Threonine	8.2 gm
L-Tryptophan	1.8 gm
L-Tyrosine	5.0 gm
L-Valine	8.2 gm
DL-alpha-Tocopherol Acetate (250 u/gm)	0.484 gm
Vitamin A Palmitate (250,000 u/gm)	0.0792 gm
Vitamin D3 (400,000 u/gm)	0.0055 gm
Ethoxyquin	0.02 gm
Vitamin Mix	
Biotin	0.0004 gm
D-Calcium Pantothenate	0.0661 gm
Folic Acid	0.002 gm
Inositol	0.1101 gm
Menadione	0.0496 gm
Niacin	0.0991 gm
p-Aminobenzoic Acid	0.1101 gm
Pyridoxine Hydrochloride	0.0220 gm
Riboflavin	0.022 gm
Thiamine Hydrochloride	0.022 gm
Vitamin B12 (0.1% trit.)	0.0297 gm
Ascorbic acid	1.0166 gm
Corn Starch	3.4503 gm

MANUFACTURE DATE: 03/20/09



03/20/2009 - Robert Beattie

MP Biomedicals, LLC

Technical Director