

DMEM/F12 Dry Powder Media

Cat# CM1015– 1 L / CM1016—1 L*10

Storage at 4 °C

INTRODUCTION

Dulbecco's Modified Eagle Media: Nutrient Mixture F-12 (DMEM / F-12) is a widely used basal Media for supporting the growth of many different mammalian cells. DMEM/F12 Dry Powder Media contains 4 times the concentration of amino acids and vitamins than the original Eagle's Minimal Essential Media. It doesn't contain proteins, lipids, or growth factors. Serum supplements are required before use, usually with 10% Fetal Bovine Serum (FBS) or **Specsure® Bovine Growth Serum**. Uses sodium bicarbonate buffer system (3.7g/L), and therefore requires a 5 to 10% CO₂ environment to maintain physiological pH. Cells successfully cultured in DMEM / F-12 include neurons, smooth muscle cells, MDCK, glial cells, fibroblasts, human endothelial cells, and rat fibroblasts.

Sterility	Sterile-filtered
Form	Powder
Application(s)	Cell culture/ mammalian: suitable
Impurities	Endotoxin, tested
Brand	ACE Biolabs
Components	HEPES (+) L-glutamine (+) D-glucose (3200 mg/ml) Phenol red (+) Sodium bicarbonate (-)
Storage temp	2-8 °C

CONTENTS

No	Component	CM1015– 1 L	CM1016—1L*10
	DMEM/F12 Dry Powder Media	1 pack	1L x 10 packs

COMPOSITION

INORGANIC SALTS	g/L
CaCl ₂ (anhydrous)	0.11665
CuSO ₄ (anhydrous)	0.0000008
Fe(NO ₃) ₃ ·9H ₂ O	0.00005
FeSO ₄ ·7H ₂ O	0.000417
MgSO ₄ (anhydrous)	0.08495
KCl	0.3118
NaHCO ₃	1.20000
NaCl	7.00000
Na ₂ HPO ₄ (anhydrous)	0.07100
NaH ₂ PO ₄ ·H ₂ O	0.06250
ZnSO ₄ ·7H ₂ O	0.000432
AMINO ACIDS	
L-Alanine	0.00445
L-Arginine·HCl	0.14750
L-Asparagine·H ₂ O	0.00750
L-Aspartic Acid	0.00665
L-Cysteine·HCl·H ₂ O	0.01756
L-Cystine·2HCl	0.03129
L-Glutamic Acid	0.00735
L-Glutamine	0.36510
Glycine	0.01875
L-Histidine·HCl·H ₂ O	0.03148
L-Isoleucine	0.05437
L-Leucine	0.05895
L-Lysine·HCl	0.09135
L-Methionine	0.01724
L-Phenylalanine	0.03548
L-Proline	0.01725
L-Serine	0.02625
L-Threonine	0.05355
L-Tryptophan	0.00902
L-Tyrosine·2Na·2H ₂ O	0.05582
L-Valine	0.05285
VITAMINS	
D-Biotin	0.00000365

Choline Chloride	0.00898
Folic Acid	0.00265
myo-Inositol	0.01261
Niacinamide	0.00202
D-Pantothenic Acid	0.00224
Pyridoxine-HCl	0.00203
Riboflavin	0.00022
Thiamine-HCl	0.00217
Vitamin B-12	0.00068
OTHER	
D-Glucose	3.15100
HEPES	3.57480
Hypoxanthine	0.00239
Linoleic Acid	0.000044
Phenol Red, Sodium Salt	0.00810
Putrescine-2HCl	0.00008
Pyruvic Acid-Na	0.05500
DL-Thioctic Acid	0.000105
Thymidine	0.000365

RELATED PRODUCTS

Specsure Bovine Growth Serum	ACE002	500 ml
MEM (Minimum Essential Media)	CM1005	500 ml
MEM (Minimum Essential Media), Dry Powder Media	CM1006	1 L
MEM (Minimum Essential Media), Dry Powder Media	CM1007	10 x 1L
DMEM (Dulbecco's modified minimal essential Media, DMEM)	CM1008	500 ml
DMEM (Dulbecco's modified minimal essential Media, DMEM), Dry Powder Media	CM1009	1 L
DMEM (Dulbecco's modified minimal essential Media, DMEM), Dry Powder Media	CM1010	10 x 1L
Ham's F-12K Media	CM1011	500 ml
Ham's F-12K Dry Powder Media	CM1012	1 L
Ham's F-12K Dry Powder Media	CM1013	10 x 1L
DMEM/F12 Media	CM1014	500 ml
DMEM/F12 Dry Powder Media	CM1015	1 L
DMEM/F12 Dry Powder Media	CM1016	10 x 1L
RPMI-1640 Media	CM1017	500 ml
RPMI-1640 Dry Powder Media	CM1018	1 L
RPMI-1640 Dry Powder Media	CM1019	10 x 1L
M-199 Media	CM1020	500 ml
M-199 Dry Powder Media	CM1021	1 L
M-199 Dry Powder Media	CM1022	10 x 1L