

DMEM (Dulbecco's modified minimal essential Media, DMEM), Dry Powder Media

Cat# CM1009—1 L / CM1010—1 L*10

Storage at 4 °C

INTRODUCTION

DMEM (Dulbecco's Modified Eagle Media) is a widely used basal Media for supporting the growth of many different mammalian cells. It contains 4 times the concentration of amino acids and vitamins than the original Eagle's Minimal Essential Media. DMEM contains no proteins, lipids, or growth factors. Therefore, DMEM requires supplementation, commonly with 10% Fetal Bovine Serum (FBS) or **Specsure® Bovine Growth Serum**. DMEM uses a sodium bicarbonate buffer system (3.7 g/L), and therefore requires a 5% CO₂ environment to maintain physiological pH. Cells successfully cultured in DMEM include neurons, smooth muscle cells, HeLa, glial cells, fibroblasts, 293, Cos-7 and PC-12.

Sterility	Sterile-filtered
Form	Powder
Application(s)	Cell culture/ mammalian: suitable
Impurities	Endotoxin, tested
Brand	ELITE-MEDIA
Components	HEPES (-) L-glutamine (+) D-glucose (4500 mg/ml) Phenol red (+) Sodium bicarbonate (+) sodium pyruvate (+)
Storage temp	2-8 °C

CONTENTS

No	Component	CM1009- 1 L	CM1010—1L*10
	DMEM Dry Powder Media	1 pack	1L x 10 packs

COMPOSITION

composition	g/L
CaCl ₂ (anhydrous)	0.2
Fe(NO ₃) ₃ ·9H ₂ O	0.0001
MgSO ₄ (anhydrous)	0.0977
KCl	0.4
NaHCO ₃	1.5
NaCl	6.4
NaH ₂ PO ₄ ·H ₂ O	0.125
L-Arginine·HCl	0.084
L-Cystine·2HCl	0.0626
L-Glutamine	0.584
Glycine	0.03
L-Histidine·HCl·H ₂ O	0.042
L-Isoleucine	0.105
L-Leucine	0.105
L-Lysine·HCl	0.146
L-Methionine	0.03
L-Phenylalanine	0.066
L-Serine	0.042
L-Threonine	0.095
L-Tryptophan	0.016
L-Tyrosine·2Na·2H ₂ O	0.10379
L-Valine	0.094
Choline Chloride	0.004
Folic Acid	0.004
myo-Inositol	0.0072
Nicotinamide	0.004
D-Pantothenic Acid	0.004
Pyridoxine·HCl	0.004
Riboflavin	0.004
Thiamine·HCl	0.004
D-Glucose	4.5
Phenol Red Sodium Salt	0.015
Sodium Pyruvate	0.11

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