

## 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 (2.2 g/L), and therefore requires a 5% CO<sub>2</sub> 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.

<b>Sterility</b>	Sterile-filtered
<b>Form</b>	Powder
<b>Application(s)</b>	Cell culture/ mammalian: suitable
<b>Impurities</b>	Endotoxin, tested
<b>pH value</b>	7.2-7.4
<b>Components</b>	HEPES (-) L-glutamine (4 mM) D-glucose (4500 mg/ml) Phenol red (15 mg/L) Sodium bicarbonate (-) sodium pyruvate (1 mM)
<b>Storage temp</b>	2-8 °C

### CONTENTS

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

## **COMPOSITION**

<b>composition</b>	<b>g/L</b>
CaCl <sub>2</sub> (anhydrous)	0.2
Fe(NO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O	0.0001
MgSO <sub>4</sub> (anhydrous)	0.0977
KCl	0.4
NaCl	6.4
NaH <sub>2</sub> PO <sub>4</sub> ·H <sub>2</sub> O	0.125
L-Arginine·HCl	0.084
L-Cystine·2HCl	0.0626
L-Glutamine	0.5846
Glycine	0.03
L-Histidine·HCl·H <sub>2</sub> 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 <sub>2</sub> 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