

RPMI-1640 Dry Powder Media

Cat# CM1018– 1 L / CM1019—1 L*10

Storage at 4 °C

INTRODUCTION

RPMI-1640 media is an improved McCoy's 5A Media, which uses bicarbonate buffer system. RPMI-1640 Media was originally designed for lymphocyte culture. Nowadays, it has been widely used in the culture of normal cells and cancer cells, especially suspension cells, which is one of the most widely used media. RPMI-1640 Media contains many kinds of amino acids, vitamins, inorganic salts and other ingredients for cell culture, but does not contain protein, lipids or any growth factors. Therefore, the product should be used serum or serum-free additives. RPMI-1640 media 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 (2 g/L), and therefore requires a 5% CO₂ environment to maintain physiological pH. Cells successfully cultured in RPMI-1640 media include cancer cell, astrocyte, MCF-7, Jurkat, PC-12, PBMC and HeLa.

Sterility	Sterile-filtered
Form	Powder
Application(s)	Cell culture/ mammalian: suitable
Impurities	Endotoxin, tested
Brand	ACE Biolabs
Components	HEPES (-) L-glutamine (+) D-glucose (2000 mg/ml) Phenol red (+) Sodium bicarbonate (-)
Storage temp	2-8 °C

CONTENTS

No	Component	CM1018– 1 L	CM1019—1L*10
	RPMI-1640 Dry Powder Media	1 pack	1L x 10 packs

COMPOSITION

INORGANIC SALTS	g/L
Ca(NO ₃) ₂ ·4H ₂ O	0.11
MgSO ₄ (anhydrous)	0.04884
KCl	0.4
NaHCO ₃	1.5
NaCl	6
Na ₂ HPO ₄ (anhydrous)	0.8
AMINO ACIDS	
L-Arginine (free base)	0.2
L-Asparagine·H ₂ O	0.05682
L-Aspartic Acid	0.02
L-Cysteine·2HCl	0.0652
L-Glutamic Acid	0.02
L-Glutamine	0.3
Glycine	0.01
L-Histidine (free base)	0.015
Hydroxy-L-Proline	0.02
L-Isoleucine	0.05
L-Leucine	0.05
L-Lysine·HCl	0.04
L-Methionine	0.015
L-Phenylalanine	0.015
L-Proline	0.02
L-Serine	0.03
L-Threonine	0.02
L-Tryptophan	0.005
L-Tyrosine·2Na·2H ₂ O	0.02883
L-Valine	0.02
VITAMINS	
D-Biotin	0.0002
Choline Chloride	0.003
Folic Acid	0.001
myo-Inositol	0.035
Niacinamide	0.001
p-Amino Benzoic Acid	0.001
D-Pantothenic Acid	0.00025

Pyridoxine-HCl	0.001
Riboflavin	0.002
Thiamine-HCl	0.001
Vitamin B-12	0.000005
OTHER	
D-Glucose	4.5
Glutathione (reduced)	0.001
HEPES	2.383
Phenol Red Sodium Salt	0.005
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