

Biosci™ RPMI-1640 Medium

Cat#6016011

[Product Description]

RPMI-1640 Medium was developed by Moore et al., at Roswell Park Memorial Institute. It was originally developed to culture human leukemic cells in suspension and as a monolayer. RPMI-1640 Medium has since been found suitable for a variety of mammalian cells, including HeLa, Jurkat, MCF-7, PC12, PBMC, astrocytes, and hybridomas. RPMI-1640 Medium requires supplementation, commonly with 10% Fetal Bovine Serum (FBS).

[Specifications]

Volume	500mL
Supplementation	Need additional
Glutamine	L-Glutamine
Phenol Red	Phenol Red
Antibiotics	No Antibiotics
Sodium Pyruvate	No Sodium Pyruvate
Sodium Bicarbonate	Sodium Bicarbonate
HEPES Buffer	No HEPES
pH	7.0-7.6
Osmolality	265~305 mOsmol/kg
Endotoxin	<0.3 EU/mL

[Formulation]

Components	mg/L
Amino Acids	
Glycine	10
L-Arginine (free base)	200
L-Asparagine (anhyd.)	50
L-Aspartic Acid	20
L-Cystine•2HCl	65
L-Glutamic Acid	20
L-Glutamine	300
L-Histidine (free base)	15
L-Hydroxyproline	20
L-Isoleucine	50
L-Leucine	50
L-Lysine•HCl	40
L-Methionine	15
L-Phenylalanine	15
L-Proline	20
L-Serine	30
L-Threonine	20
L-Tryptophan	5
L-Tyrosine•2Na•2H ₂ O	29
L-Valine	20

Vitamins	
D-Biotin	0.2
Choline chloride	3
Folic Acid	1
myo-Inositol	35
Niacinamide	1
p-Amino Benzoic Acid	1
D-Pantothenic Acid•1/2 Ca	0.25
Pyridoxal•HCl	1
Riboflavin	0.2
Thiamine•HCl	1
Vitamin B-12	0.005
Inorganic Salts	
Ca(NO ₃) ₂ •4H ₂ O	100
MgSO ₄ (anhyd.)	48.84
KCl	400
NaHCO ₃	2000
NaCl	6000
NaH ₂ PO ₄ (anhyd.)	800
Other	
D-Glucose	2000
Glutathione (reduced)	1
Phenol Red•Na	5

[Storage]

Stored at 2°C~8°C, away from light, the shelf life is 12 months.

[Notes]

Avoid repeated freezing and thawing.
Pay attention to operate in an aseptic condition.

[Basic Information]

Manufacturer and after-sales service unit

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[Instruction Revision Date]

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