

★ Storage

Store at 2 -8°C.

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- RPMI-1640

ALL PRODUCTS SOLD BY GenDEPOT ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSE

★ Shipping Condition

Ship at ambient

★ Introduction

RPMI-1640 was developed in 1966 by Moore and his co-workers at Roswell Park Memorial Institute (hence the acronym RPMI). It is based on the RPMI-1630 series of media utilizing a bicarbonate buffering system and alterations in the amounts of amino acids and vitamins. While it was originally formulated to support lymphoblastoid suspension culture, it has been proven to support a wide variety of anchorage-dependant cells. It has a wide range of uses, including the culture of fresh human lymphocytes, fusion protocols, and in the growth of hybrid cells.

★ Formulation

Amino Acids	mg/L
Glycine (C ₂ H ₅ NO ₂)	10.00
L-Arginine, Hydrochloride(C ₆ H ₁₄ N ₄ O ₂ .HCl)	200.00
L-Asparagine, Monohydrate(C ₄ H ₈ N ₂ O ₃ .HCl)	50.00
L-Aspartic Acid(C ₄ H ₇ NO ₄)	20.00
L-Cystine, Dihydrochloride(C ₆ H ₁₂ N ₂ O ₂ S ₂ .2HCl)	65.00
L-Glutamic Acid(C ₅ H ₉ NO ₄)	20.00
L-Glutamine(C ₅ H ₁₀ N ₂ O ₃)	300.00
L-Histidine(C ₆ H ₉ N ₃ O ₂ .HCl.H ₂ O)	15.00
L-Hydroxyproline(C ₅ H ₉ NO ₃)	20.00
L-Isoleucine(C ₆ H ₁₃ NO ₂)	50.00
L-Leucine(C ₆ H ₁₃ NO ₂)	50.00
L-Lysine, Hydrochloride(C ₆ H ₁₄ N ₂ O ₂ .HCl)	40.00
L-Methionine(C ₅ H ₁₁ NO ₂ S)	15.00
L-Phenylalanine(C ₉ H ₉ NO ₂)	15.00
L-Proline(C ₅ H ₉ NO ₂)	20.00

Amino Acids	mg/L
L-Serine(C ₃ H ₇ NO ₃)	30.00
L-Threonine(C ₄ H ₉ NO ₃)	20.00
L-Tryptophan(C ₁₁ H ₁₂ N ₂ O ₂)	5.00
L-Tyrosine, Disodium,Dihydrate(C ₉ H ₉ NO ₃ Na ₂ .2H ₂ O)	29.00
L-Valine(C ₅ H ₁₁ NO ₂)	20.00

Inorganic Salts	mg/L
Calcium Nitrate, Tetrahydrate(Ca(NO ₃) ₂ .4H ₂ O)	100.00
Magnesium Sulfate, Anhydrous(MgSO ₄)	48.84
Potassium Chloride(KCl)	400.00
Sodium Bicarbonate(NaHCO ₃)	2000.00
Sodium Chloride(NaCl)	6000.00
Sodium Phosphate,Dibasic(NaH ₂ PO ₄)	800.00

Vitamins	mg/L
Biotin(C ₁₀ H ₁₆ N ₂ O ₃ S)	0.20
Choline Chloride(C ₅ H ₁₄ ClNO)	3.00
D-Calcium Pantothenate(C ₁₈ H ₃₂ CaN ₂ O ₁₀)	0.25
Folic Acid(C ₁₉ H ₁₉ N ₇ O ₆)	1.00
Myo-Inositol(C ₆ H ₁₂ O ₆)	35.00
Niacinamide(C ₆ H ₆ N ₂ O)	1.00
Para-Aminobenzoic Acid(C ₇ H ₇ NO ₂)	1.00
Pyridoxine, Hydrochloride(C ₈ H ₁₁ NO ₃ .HCl)	1.00
Riboflavin(C ₁₇ H ₂₀ N ₄ O ₆)	0.20
Thiamine, Hydrochloride(C ₁₂ H ₁₇ ClN ₄ OS.HCl)	1.00
Vitamin B12(C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P)	0.005

Other Components	mg/L
D-Glucose, Anhydrous(C ₆ H ₁₂ O ₆)	2000.00
Glutathione, Reduced(C ₁₀ H ₁₇ N ₃ O ₆ S)	1.00
HEPES(C ₈ H ₁₈ N ₂ O ₄ S)	
Phenol Red, Sodium Salt(C ₁₉ H ₁₃ NaO ₅ S)	5.00