

# RPMI 1640 Medium

## RPMI 1640 medium

Catalog # 36750      500 mL



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## Product Description

Roswell Park Memorial Institute (RPMI) 1640 Medium is useful for a wide variety of cell culture applications. Selection of a suitable nutrient medium is dependent on the type of cell, culture conditions, and degree of chemical definition required for the cell culture application.

See Formulation on page 2 for a full list of components.

## Properties

**Storage:** Store at 2 - 8°C.

**Shelf Life:** Stable for 12 months from date of manufacture (MFG) on label.

## Handling / Directions For Use

This product contains the labile amino acid L-glutamine which has a half-life of approximately 1 month when stored at 2 - 8°C. For certain cell culture applications, medium stored for greater than 2 months following date of manufacture should be supplemented with additional L-glutamine. Add 5 mL of 200 mM L-Glutamine (Catalog #07100) to 500 mL of RPMI 1640 Medium to achieve a final concentration of 2 mM.

NOTE: This product does not contain antibiotics. If desired, add antibiotics and use within 1 week.

## Formulation

INORGANIC SALTS	g/L
Calcium Nitrate•4H <sub>2</sub> O	0.1
Magnesium Sulfate (anhydrous)	0.04884
Potassium Chloride	0.4
Sodium Chloride	6.0
Sodium Phosphate Dibasic (anhydrous)	0.8
AMINO ACIDS	g/L
L-Arginine (free base)	0.2
L-Asparagine (anhydrous)	0.05
L-Aspartic Acid	0.02
L-Cystine•2HC	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 <sub>2</sub> O	0.02883
L-Valine	0.02
VITAMINS	g/L
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 (hemicalcium)	0.00025
Pyridoxine•HCl	0.001
Riboflavin	0.0002
Thiamine•HCl	0.001
Vitamin B-12	0.000005
OTHER	g/L
D-Glucose	2.0
Glutathione (reduced)	0.001
Phenol Red•Na	0.0053
Sodium Bicarbonate	2.0

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