

**Product Name**

Name: RPMI 1640, with L-Glutamine

Cat. No.: C3010-0500

Size: 500 mL

**Product Description**

Roswell Park Memorial Institute (RPMI) media are a series of media developed by Moore and colleagues for the culture of human normal and neoplastic cells in vitro. RPMI-1640 is the most commonly used medium in the series. It is a modification of McCoy's 5A medium and was specifically designed to support the growth of human lymphoblastoid cells in suspension culture. Presently the medium is extensively used for a wide range of anchorage-dependent cell lines. The medium needs to be supplemented with 5 - 20% fetal bovine serum (FBS). The medium is also known to support the growth of cells in the absence of serum, i.e., serum-free medium. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific to different cell lines.

**Composition**

Ingredients	mg/L	Ingredients	mg/L
<b>INORGANIC SALTS</b>			
Calcium nitrate tetrahydrate	100.000	Sodium chloride	6000.000
Magnesium sulphate anhydrous	48.840	Sodium phosphate dibasic anhydrous	800.000
Potassium chloride	400.000		
<b>AMINO ACIDS</b>			
Glycine	10.000	L-Leucine	50.000
L-Arginine hydrochloride	241.000	L-Lysine hydrochloride	40.000
L-Asparagine	50.000	L-Methionine	15.000
L-Aspartic acid	20.000	L-Phenylalanine	15.000
L-Cystine dihydrochloride	65.200	L-Proline	20.000
L-Glutamic acid	20.000	L-Serine	30.000
L-Glutamine	300.000	L-Threonine	20.000
L-Histidine hydrochloride monohydrate	20.960	L-Tryptophan	5.000
L-Hydroxyproline	20.000	L-Tyrosine disodium salt	28.830
L-Isoleucine	50.000	L-Valine	20.000
<b>Vitamins</b>			
Choline chloride	3.000	Riboflavin	0.200
D-Biotin	0.200	Thiamine hydrochloride	1.000
D-Ca-Pantothenate	0.250	Vitamin B12	0.005
Folic acid	1.000	i-Inositol	35.000



Niacinamide	1.000	p-Amino benzoic acid (PABA)	1.000
Pyridoxine hydrochloride	1.000		

## OTHERS

D-Glucose	2000.000	Phenol red sodium salt	5.300
Glutathione reduced	1.000	Sodium bicarbonate	2000.000

## Procedure

1. Take a bottle from the refrigerator at 2 - 8°C and read the label.
2. Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
3. Pipette out the appropriate volume using an aseptic/sterile technique under a laminar-flow culture hood.
4. Add antibiotics or other nutrients if desired.

## Quality Control

RPMI-1640 with L-Glutamine is tested for sterility, pH, osmolality, and endotoxin concentration. In addition, each batch is tested for cell growth performance using Vero cells.

## Storage and Stability

The product should be kept at **2 - 8°C**.

The product is **light-sensitive** and therefore should not be left in the light.

Shelf life: 12 months from date of manufacture.

## Manufacturer

Shanghai Dr. Cell Co., Ltd.

## Issue Date

June 2023

## Precaution and Disclaimer

For research use only, not for clinical diagnosis, and treatment.

