RPMI 1640 Medium

(RPMI 1640 Medium)

Cat. No. CPR001

With L-Glutamine

With Sodium Bicarbonate

1. Product Descrption

RPMI 1640 Medium was originally developed for the culture of human leukemic cells and is now widely used for the culture of various cell types such as HeLa, Jurkat, MCF-7, PC12, PBMC, astrocytes, and carcinomas. It contains unique components such as glutathione, biotin, vitamin B12, and PABA which are not found in Eagle's media.

2. Composition

Concentration: mg/L

Amino Acids	mg/L	Vitamins	mg/L	Inorganic Salts	mg/L
L-Arginine	200.0	Biotin	0.2	$CaCl_2$	100.0
L-Asparagine	50.0	D-Ca Pantothenate	0.25	KCl	400.0
L-Aspartic Acid	20.0	Choline Chloride	3.0	$MgSO_4$	48.84
L-Cystine·2HCl	65.0	Folic Acid	1.0	NaCl	6000.0
L-Glutamic Acid	20.0	i-Inositol	35.0	$NaHCO_3$	2000.0
L-Glutamine	300.0	Niacinamide	1.0	Na_2HPO_4	800.0
Glycine	10.0	Para-Aminobenzoic Acid	1.0	**Others**	
L-Histidine	15.0	Pyridoxine·HCl	1.0	D-Glucose	2000.0
L-Hydroxyproline	20.0	Riboflavin	0.2	Glutathione (reduced)	1.0
L-Isoleucine	50.0	Thiamine·HCl	1.0	Phenol Red	5.0
L-Leucine	50.0	Vitamin B12	0.005		
L-Lysine·HCl	40.0				
L-Methionine	15.0				
L-Phenylalanine	15.0				
L-Proline	20.0				
L-Serine	30.0				
L-Threonine	20.0				
L-Tryptophan	5.0				
L-Tyrosine·2Na·$2H_2O$	29.0				
L-Valine	20.0				

3. Product Quality Specifications

Appearance	pH	Osmolality	Endotoxin	Sterility
Red clear liquid	pH 7.3 ± 0.3	279 ± 14 mOsm/kg H_2O	< 1 EU/mL	Sterile

4. Storage Conditions and Precautions

Protect from direct light and store refrigerated (2~8℃). Product degradation may appear as precipitates, floating particles, turbidity, or color change; discard if any are observed. Storing against the inner walls of a refrigerator where temperatures may approach 0℃ can cause degradation.

5. Usage Instructions and Precautions

This product is a sterile solution. Open the cap only in a sterile environment (e.g., a clean bench) using aseptic technique. It is recommended to use the entire contents after opening; otherwise, aliquot into a suitable sterile container and store refrigerated (2~8℃).