

Product Information

RPMI 1640, Powder Medium, 10 L, with L-Glutamine, without Sodium Bicarbonate Catalogue Number: GBPWRP02

Product Specification

Appearance	:	Off-white to creamy white, homogenous powder		
Storage & Shelf Life	:	Store at +2°C to +8°C, dry and protected from light. Please refer to product label for expiration date.		
Shipping Conditions	:	Ambient		
Use at	:	10.46 g/L		
Add	:	2.0 g/L Sodium Bicarbonate		

Instructions for Use

Preparation of 1 liter liquid medium

1. Suspend 10.46 g in 900 ml cell culture grade water with constant, gentle stirring until the powder is completely dissolved. Do not heat the water.

2. Add 2.0 g of sodium bicarbonate powder or 26.7 ml of 7.5 % sodium bicarbonate solution for 1 liter of medium and stir until dissolved.

3. Adjust the pH to 0.2 to 0.3 pH units below the desired pH using 1 N HCl or 1 N NaOH since the pH tends to rise during filtration. 4. Add cell culture grade water up to the final volume of 1000 ml.

5. Sterilize the medium immediately by filtering through a sterile membrane filter with porosity of 0.22 micron or less, using positive pressure rather than vacuum to minimize the loss of carbon dioxide.

6. Aseptically add sterile supplements as required and dispense the desired amount of sterile medium into sterile containers.

7. Store liquid medium at +2°C to +8°C and in dark until use.

Additional Information

- Concentrated medium preparation is not suggested as it may cause precipitation of low-solubility free base amino acids and salt complexes.
- The pH and sodium bicarbonate concentration of the prepared medium are significant parameters influencing cell development. The surface-to-volume ratio of the culture vessel and the amount of media employed also impact this. In large bottles, releasing huge amounts of carbon dioxide causes a noticeable increase in pH. Optimal pH, sodium bicarbonate content, and surface-to-volume ratios must be calculated for each cell type. We suggest strict pH monitoring. To alter the pH, use sterilized 1 N HCl or 1 N NaOH, or formed bubbles in carbon dioxide.
- If necessary, supplements can be given to the medium before or after filter sterilization while following sterility precautions. The shelf life of the medium will be determined by the type of supplement added to it.

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Formulation

Components	Concentration mg/L	Components	Concentration mg/L
Vitamins:		Amino Acids:	
p-Amino Benzoic Acid	1.00	L-Arginine HCI	241.00
D-Biotin	0.20	L-Asparagine H2O	56.82
Choline chloride	3.00	L-Aspartic Acid	20.00
D-Calcium Pantothenate	0.25	L-Cystine 2 HCl	65.20
Folic Acid	1.00	L-Glutamine	300.00
myo-Inositol	35.00	Glycine	10.00
Nicotinamide	1.00	L-Glutamic Acid	20.00
Pyridoxal HCl	1.00	L-Histidine HCl H2O	20.96
Riboflavin	0.20	L-Hydroxy-L-Proline	20.00
Thiamine HCI	1.00	L-Isoleucine	50.00
Vitamin B12	0.005	L-Leucine	50.00
Inorganic Salts:		L-Lysine HCl	40.00
Ca(NO3)2 4H2O	100.00	L-Methionine	15.00
MgSO4 7H2O	100.00	L-Phenylalanine	15.00
KCI	400.00	L-Proline	20.00
NaCl	6000.00	L-Serine	30.00
Na2HPO4	800.00	L-Threonine	20.00
Other Components:		L-Tryptophan	5.00
D-Glucose	2000.00	L-Tyrosine 2 Na 2H2O	28.83
L-Glutathione Reduced	1.00	L-Valine	20.00
Phenol Red Sodium Salt	5.30		

Need help?

If you have any further queries, please feel free to email our cell culture specialists at info@genexisbiotech.com

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