

Product Information

DMEM High Glucose (4.5 g/l) Powder Medium, 50 L, with L-Glutamine, with Sodium Pyruvate, without Sodium Bicarbonate

Catalog Number: GBPWDM03

Product Specification

Appearance : Off-white to creamy white, homogenous powder

Store at +2°C to +8°C, dry and protected from light. Please refer to product label for expiration

Storage & Shelf Life : date.

Shipping Conditions: Ambient Use at : 13.67 g/L

Add : 3.7 g/L Sodium Bicarbonate

Instructions for Use

Preparation of 1 liter liquid medium

- 1. Suspend 13.67 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 3.7 g of sodium bicarbonate powder or 49.3 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:	
Choline chloride	4.00	L-Arginine HCI	84.00
D-Calcium Pantothenate	4.00	L-Cystine 2 HCl	62.57
Folic Acid	4.00	L-Glutamine	584.00
myo-Inositol	7.20	Glycine	30.00
Nicotinamide	4.00	L-Histidine HCl H2O	42.00
Pyridoxal HCl	4.00	L-Isoleucine	105.00
Riboflavin	0.40	L-Leucine	105.00
Thiamine HCI	4.00	L-Lysine HCI	146.00
Inorganic Salts:	_	L-Methionine	30.00
CaCl2 2 H2O	265.00	L-Phenylalanine	66.00
Fe(NO3)3 9 H2O	0.10	L-Serine	42.00
MgSO4 7H2O	200.10	L-Threonine	95.00
KCI	400.00	L-Tryptophan	16.00
NaCl	6400.00	L-Tyrosine 2 Na 2H2O	103.79
NaH2PO4 2H2O	141.73	L-Valine	94.00
Other Components:			
D-Glucose	4500.00		
Phenol Red Sodium Salt	15.90	This product is for research use only.	
Sodium Pyruvate	110.00		

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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