

DMEM, High Glucose, no L-Glutamine, no Calcium

Cat. No.: G4519

Product Information

Product Name	Cat. No.	Spec.
DMEM, High Glucose, no L-Glutamine, no Calcium	G4519-500ML	500 mL

Product Description

Dulbecco's Modified Eagle Medium (DMEM), is a modified medium based on MEM, is now widely used in various cell cultures. DMEM High Glucose Medium is commonly used for fast-growing cells with low adhesion. It can be used for the culture of many kinds of mammalian primary cells, such as primary fibroblasts, neuronal cells, glial cells, HUVEC, smooth muscle cells, etc. It can also be used for the culture of some cell lines, such as Hela, 293, Cos-7 and PC-12.

This product contains many kinds of amino acids, vitamins, inorganic salts and other ingredients required for cell culture, does not contain protein or growth factors, need to be added according to the type of cells 5-10% serum or serum-free additives to use.

This product is filtered and sterilized by 0.1 μ m filter membrane, pH 7.0-7.4, containing 25 mM D-glucose, with phenol red indicator, calcium ion, L-glutamine, sodium pyruvate have not been added, and does not contain HEPES buffer system..

Storage and Shipping Conditions

Ship at room temperature; Store away from light at 2-8°C, valid for 12 months.

Note

1. This product has been filtered and sterilized. Attention should be paid to aseptic operation to avoid contamination.
2. Avoid freezing the culture medium. Freezing may cause precipitation and precipitation of nutrients, which may not be completely dissolved after rewarming, affecting the cell culture effect. In addition, when the medium is stored at 2-8°C, do not store it completely close to the inner wall of the refrigerator to prevent the medium from freezing due to localized low temperature.
3. For your safety and health, please wear safety glasses, gloves or protective clothing.

For Research Use Only!

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G4519 DMEM (High Glucose) Medium Formula

Components	Concentration		Components	Concentration	
	mg/L	mM		mg/L	mM
Amino acids			Inorganic salts		
Glycine	30	0.4	Ferric nitrate nonahydrate ($\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$)	0.1	0.0002
L-Arginine hydrochloride	84	0.4	Magnesium Sulfate (MgSO_4) (anhyd.)	97.67	0.8
L-Cystine 2HCl	62.6	0.2	Potassium Chloride (KCl)	400	5.36
L-Histidine hydrochloride- H_2O	42	0.2	Sodium Bicarbonate (NaHCO_3)	3700	44.04
L-Isoleucine	105	0.8	Sodium Chloride (NaCl)	6400	109.5
L-Leucine	105	0.8	Sodium Phosphate monobasic (NaH_2PO_4) (anhyd.)	108.7	0.906
L-Lysine hydrochloride	146	0.8	Other components		
L-Methionine	30	0.2	D-Glucose (Dextrose)	4500	24.98
L-Phenylalanine	66	0.4	Phenol Red	14.95	0.0422
L-Serine	42	0.4			
L-Threonine	95	0.8			
L-Tryptophan	16	0.08			
L-Tyrosine disodium salt dihydrate dihydrate	103.7 9	0.4			
L-Valine	94	0.8			
Vitamins					
Choline chloride	4	0.0286			
D-Calcium pantothenate	4	0.0084			
Folic Acid	4	0.0091			
Niacinamide	4	0.0328			
Pyridoxine hydrochloride	4	0.0195			
Riboflavin	0.4	0.0011			
Thiamine hydrochloride	4	0.0119			
Meso-Inositol	7.2	0.0389			