

DMEM/no Glucose, GlutaPlus, Sodium Pyruvate, no HEPES

Cat NO.: G4583

Product Information

Product Name	Cat. No.	Spec.
DMEM/no Glucose, GlutaPlus, Sodium Pyruvate, no HEPES	G4583-500ML	500 mL

Product Description/Introduction

Dulbecco's Modified Eagle Medium (DMEM), is a modified medium based on MEM, is a widely used basal medium for supporting the growth of many different mammalian cells.. The DMEM medium was originally designed as low-glucose containing D-Glucose 1000 mg/L, and later developed as high-glucose containing D-Glucose 4500 mg/L. DMEM medium without D-glucose can be adjusted to suit the needs of the study.

This product contains amino acids, vitamins, inorganic salts and other ingredients required for cell culture, without protein or growth factors. Add 5-10% serum or serum-free additives depending on the cell type.

The major character of this DMEM is as follows:

- Without glucose, HEPES
- With 4.0 mM L-alanyl-L-glutamine, 1.0 mM sodium pyruvate, phenol red.

The complete formulation is available..

Storage and Shipping Conditions

Ship at room temperature; Store 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. For best results, do not freeze and thaw repeatedly.
3. For your safety and health, please wear safety glasses, gloves, or protective clothing.

For Research Use Only!

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DMEM, no Glucose Formula

Components	Concentration		Components	Concentration	
	mg/L	mM		mg/L	mM
Amino acids			Inorganic salts		
Glycine	30	0.4	Calcium Chloride (CaCl ₂) (anhyd.)	200	1.80
L-Arginine hydrochloride	84	0.4	Ferric nitrate nonahydrate (Fe(NO ₃) ₃ • 9H ₂ O)	0.1	0.000
L-Cystine dihydrochloride	62.6	0.2			2
L-Histidine hydrochloride-H ₂ O	42	0.2	Magnesium Sulfate (MgSO ₄) (anhyd.)	97.67	0.80
L-Isoleucine	105	0.80	Potassium Chloride (KCl)	400	5.36
L-Leucine	105	0.80	Sodium Bicarbonate (NaHCO ₃)	3700	44.04
L-Lysine hydrochloride	146	0.8	Sodium Chloride (NaCl)	4750	81.9
			Sodium Phosphate monobasic (NaH ₂ PO ₄) (anhyd.)	108.7	0.906
L-Methionine	30	0.2	Other components		
L-Phenylalanine	66	0.4	D-Glucose (Dextrose)	-	-
L-Serine	42	0.4	Sodium pyruvate	-	-
L-Threonine	95	0.8	HEPES	-	-
L-Tryptophan	16	0.08	Phenol Red	14.95	0.042
					2
L-Tyrosine disodium salt dihydrate	103.79	0.4			
L-Valine	94	0.8			
L-Glutamine	-	-			
L-Alanyl-L-Glutamine	-	-			
Vitamins					
Choline chloride	4.0	0.0286			
D-Calcium pantothenate	4.0	0.0084			
Folic Acid	4.0	0.0091			
Niacinamide	4.0	0.0328			
Pyridoxine hydrochloride	4.0	0.0195			
Riboflavin	0.4	0.0011			
Thiamine hydrochloride	4.0	0.0119			
i-Inositol	7.2	0.0389			