

α-MEM, Nucleosides, GlutaPlus, no Phenol Red

Cat. No.: G4559

Product Information

Product Name	Cat. No.	Spec.
α-MEM, Nucleosides, GlutaPlus, no Phenol Red	G4559-500ML	500 mL

Product Description/Introduction

α-MEM (α Minimum Essential Medium) is a modified medium from MEM. Compared with MEM, α-MEM has added sodium pyruvate, zinc sulfate, vitamin B12, biotin, ascorbic acid and other components, and is widely used for the culture of various mammalian suspension and adherent cells. α-MEM is divided into the types of nucleoside-containing and non-nucleoside-containing. The nucleoside-free and deoxynucleoside-free α-MEM is commonly used as a screening medium for DG44 and other DHFR-deficient cells.

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

This product is filtered and sterilized by 0.1 μm filter membrane, pH 7.0-7.4, contains L-Alanyl-L-Glutamine, sodium pyruvate, nucleoside and deoxynucleoside, without phenol red, without HEPES. Please check the official website for the specific recipe.

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 and protective clothing.

For Research Use Only!

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G4554 α-MEM Formula

Components	Concentration		Components	Concentration	
	mg/L	mM		mg/L	mM
Amino acids			Inorganic salts		
Glycine	50	0.6667	Calcium Chloride (CaCl ₂)(anhyd.)	200	1.801802
L-Alanine	25	0.2809	Magnesium Sulfate (MgSO ₄) (anhyd.)	97.67	0.813917
L-Arginine hydrochloride	105	0.4976	Potassium Chloride (KCl)	400	5.333
L-Asparagine-H ₂ O	50	0.3333	Sodium Bicarbonate (NaHCO ₃)	2200	26.2
L-Aspartic Acid	30	0.2256	Sodium Chloride (NaCl)	6800	117.2
L-Cystine 2HCl	31	0.099	Sodium Phosphate monobasic (NaH ₂ PO ₄) (anhyd.)	121.7	1.014
L-Cysteine hydrochloride-H ₂ O	100	0.5682	Other components		
L-Glutamic Acid	75	0.5102	D-Glucose (Dextrose)	1000	5.6
L-Alanyl-L-Glutamine	434.4	2	Lipoic Acid	0.2	0.0009709
L-Histidine hydrochloride-H ₂ O	42	0.2	Sodium pyruvate	110	1
L-Isoleucine	52.4	0.4	Adenosine	10	0.375
L-Leucine	52	0.3969	Cytidine	10	0.0412
L-Lysine hydrochloride	73	0.3989	Guanosine	10	0.0353
L-Methionine	15	0.1007	Uridine	10	0.041
L-Phenylalanine	32	0.1939	2' Deoxyadenosine	10.72	0.0398
L-Proline	40	0.3478	2' Deoxycytidine HCl	9.46	0.0417
L-Serine	25	0.2381	2' Deoxyguanosine	10.68	0.0375
L-Threonine	48	0.4034	Thymidine	10	0.0413
L-Tryptophan	10	0.049			
L-Tyrosine Disodium Salt	52	0.2311			
L-Valine	46	0.3932			
Vitamins					

Ascorbic Acid	50	0.2841
Biotin	0.1	0.00041
Choline chloride	1	0.007143
D-Calcium pantothenate	1	0.002096
Folic Acid	1	0.002268
Niacinamide	1	0.008197
Pyridoxine hydrochloride	1	0.004902
Riboflavin	0.1	0.000266
Thiamine hydrochloride	1	0.002967
Vitamin B12	1.36	0.001004
i-Inositol	2	0.011111
