

Ham' s F-12, GlutaPlus

Cat. No.: G4562-500ML

Product Information

Product Name	Cat. No.	Spec.
Ham' s F-12, GlutaPlus	G4562-500ML	500 mL

Product Description/Introduction

Ham' s F-12 (Ham' s F-12 Nutrient Mixture) is based on Ham's F-10 nutrient mix and was originally designed for serum-free culture of CHO cells. Ham's F-12 is often used as a basal culture medium for serum-free cultures and is particularly suitable for single cell cultures and clonogenic cultures at low serum levels. It is also widely used in the culture of tumor cells and primary cells by adding serum, such as rat hepatocytes, rat prostate epithelial cells, chondrocytes, rat myogenic cells, chicken embryonic cells, etc. In addition, Ham's F-12 is mixed with DMEM in equal volume to obtain a more nutrient-rich DMEM/F-12 medium.

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 μ m filter membrane, pH 7.0-7.4, contains 10 mM D-Glucose, 1.0 mM L-Alanyl-L-Glutamine, 1.0 mM sodium pyruvate and phenol red indicator, without HEPES.

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. For best results, do not freeze and thaw repeatedly.
3. For your safety and health, please wear safety glasses, gloves and protective clothing.

For Research Use Only!

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G4562 Ham's F-12 Formula

Components	Concentration		Components	Concentration	
	mg/L	mM		mg/L	mM
Amino acids			Inorganic salts		
Glycine	7.507	0.1	Potassium Chloride (KCl)	223.6	2.98
L-Alanine	8.90	0.1	Sodium Bicarbonate (NaHCO ₃)	1176	14
L-Arginine hydrochloride	210.66	1.0	Sodium Chloride (NaCl)	7599	131.02
L-Asparagine-H ₂ O	15.02	0.1	Dibasic sodium phosphate (Na ₂ HPO ₄) (anhyd.)	141.96	1.0
L-Aspartic Acid	13.31	0.1	Calcium Chloride (CaCl ₂)(anhyd.)	33.22	0.30
L-Cysteine hydrochloride-H ₂ O	35.05	0.20	Copper Sulfate Pentahydrate (CuSO ₄ • 5H ₂ O)	0.0025	0.00001
L-Glutamic Acid	14.71	0.1	Iron Sulfate Heptahydrate (FeSO ₄ • 7H ₂ O)	0.834	0.003
L-Alanyl-L-Glutamine	217.2	1.0	Magnesium Chloride (MgCl ₂)(anhyd.)	57.35	0.60
L-Histidine hydrochloride-H ₂ O	20.96	0.1	Zinc Sulfate Heptahydrate (ZnSO ₄ • 7H ₂ O)	0.862	0.003
L-Isoleucine	4.005	0.031	Other components		
L-Leucine	13.12	0.1	D-Glucose (Dextrose)	1802.0	10.01
L-Lysine hydrochloride	36.5	0.199	Phenol red	1.13	0.00319
L-Methionine	4.5	0.03	Sodium pyruvate	110	1.0
L-Phenylalanine	5.0	0.03	Hypoxanthine	4.083	0.03
L-Proline	34.5	0.3	Linoleic Acid	0.084	0.0003
L-Serine	10.5	0.1	Alphalipoic Acid	0.210	0.00102
L-Threonine	11.9	0.10	Diaminobutane dihydrochloride	0.161	0.001
L-Tryptophan	2.0	0.01	Thymidine	0.701	0.00289
L-Tyrosine Disodium Salt	7.8	0.0298			
L-Valine	11.7	0.1			
Vitamins					
Biotin	0.0073	0.0000299			
Choline chloride	14	0.1			
D-Calcium pantothenate	0.50	0.001048			
Folic Acid	1.30	0.002948			
Niacinamide	0.04	0.000295			
Pyridoxine hydrochloride	0.06	0.000291			
Riboflavin	0.04	0.000098			
Thiamine hydrochloride	0.30	0.000890			
Vitamin B12	1.40	0.001033			
i-Inositol	18	0.1			