DMEM/F-12, no L-Glutamine, no HEPES

Cat. No.: G4611

Product Information

Product Name	Cat. No.	Spec.
DMEM/F-12, no L-Glutamine, no HEPES	G4611-500ML	500 mL

Product Description/Introduction

DMEM/F-12 medium was modified by mixing DMEM with Ham's F-12 medium at a ratio of 1:1. The modified DMEM/F-12 medium is richer in nutrients and contains more micronutrients, which is a widely used basal medium for supporting the growth of many different mammalian cells, as well as for the culture of mammalian cells at low serum levels and for clonal density culture. DMEM/F-12 has also been used as a base medium for the development of serum-free medium.

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.

This product is sterilized by 0.1μm filter membrane, pH 7.0-7.4, contains 17.5 mM D-glucose, 0.5 mM sodium pyruvate, phenol red indicator, no L-glutamine and 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. 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!

Ver. No.: V1.2-20260617

Wuhan Servicebio Technology Co.,Ltd.
No. 4, Fo Zu Ling 2nd Road, East Lake New Technology Development Zone, Wuhan, Hubei Province, China 430205
Website: www.servicebio.com

G4611 DMEM/F-12 Formula

Components	Concentration	
	mg/L	mM
Amino acids		
Glycine	18.75	0.250
L-Alanine	4.45	0.050
L-Arginine monohydrochloride	147.5	0.699
L-Asparagine monohydrate	7.5	0.050
L-Asparagine	6.65	0.050
L-Cysteine hydrochloride hydrate	17.56	0.100
L-Cystine dihydrochloride	31.29	0.100
L-Glutamic acid	-	-
L-Alanyl-L-Glutamine	543.0	2.500
L-Histidine hydrochloride monohydrate	31.48	0.150
L-Isoleucine	54.47	0.416
L-Leucine	59.05	0.451
L-Lysine hydrochloride	91.25	0.499
L-Methionine	17.24	0.116
L-Phenylalanine	35.48	0.215
L-Proline	17.25	0.150
L-Serine	26.25	0.250
L-Threonine	53.45	0.449
L-Tryptophan	9.02	0.044
L-Tyrosine disodium salt	55.79	0.214
L-Valine	52.85	0.452
Vitamins		
Biotin	0.0035	0.0000143
Choline chloride	8.98	0.06414
D-Calcium pantothenate	2.24	0.00470
Folic Acid	2.65	0.00601
Niacinamide	2.02	0.01656
Pyridoxine hydrochloride	2.013	0.00977
Riboflavin	0.219	0.00058
Thiamine hydrochloride	2.17	0.00644
Vitamin B12	0.68	0.00050
i-Inositol	12.6	0.07

Components	Concentration	
	mg/L	mM
Inorganic salts		
Calcium Chloride ($CaCl_2$)(anhyd.)	116.6	1.050
Cupric Sulfate ($CuSO_4 \cdot 5H_2O$)	0.0013	0.0000052
Ferric Nitrate ($Fe(NO_3)_3 \cdot 9H_2O$)	0.05	0.0001238
Ferrous Sulfate ($FeSO_4 \cdot 7H_2O$)	0.417	0.0015
Magnesium chloride ($MgCl_2$)(anhyd.)	28.64	0.301
Magnesium sulfate ($MgSO_4$) (anhyd.)	48.84	0.407
Potassium Chloride (KCl)	311.8	4.157
Sodium bicarbonate($NaHCO_3$)	2438	29.02
Sodium chloride (NaCl)	6995.5	120.6
Disodium (hydrogen) phosphate(Na_2HPO_4)(anhyd.)	71.02	0.500
Sodium dihydrogen phosphate(NaH_2PO_4)(anhyd.)	54.34	0.453
Zinc Sulfate($ZnSO_4 \cdot 7H_2O$)	0.432	0.0015
Other components		
D-Glucose (Dextrose)	3151	17.51
Hypoxanthine Na	2.39	0.015
Linoleic Acid	0.042	0.00015
Lipoic acid	0.105	0.00051
Phenol Red	8.1	0.022
Putrescine dihydrochloride	0.081	0.00050
Thymidine	0.365	0.00151
Sodium pyruvate	55	0.500
HEPES	–	–

Wuhan Servicebio Technology Co.,Ltd.
No. 4, Fo Zu Ling 2nd Road, East Lake New Technology Development Zone, Wuhan, Hubei Province, China 430205
Website: www.servicebio.com