

Product Data Sheet

Serum-Free DMEM/F12 (1:1)

Catalog Number: 0410

Product Description

DMEM/F12 is a serum-free medium formulation for general use. This formulation is a 1:1 blend of DMEM and Ham's F12 media supplied complete, ready to use with L-glutamine, Hepes, BPE and EGF for culturing a wide range of cell types. DMEM/F12 does not contain phenol red or antibiotics.

Formulation

DMEM/F12

Cat. No. 0410

Inorganic Salts	g/L	Amino Acids	g/L
(NH ₄) ₂ MO ₄ 4H ₂ O	—	L-Alanine	0.00445
NH ₄ BO ₃	—	L-Arginine HCl	0.1475
CaCl ₂ anhydrous	0.1166	L-Asparagine H ₂ O	0.0075
CuSO ₄ •5H ₂ O	0.000013	L-Aspartic Acid	0.00665
Fe(NO ₃) ₃ 9H ₂ O	0.00005	L-Cystine 2HCl	0.01756
FeSO ₄ 7H ₂ O	0.000417	L-Cysteine HCl H ₂ O	0.03129
MgCl ₂ 6H ₂ O	0.0612	L-Glutamic Acid	0.00735
MgSO ₄	0.04884	L-Glutamine	0.365
MnSO ₄	—	Glycine	0.01875
NiCl ₂	—	L-Histidine HCl H ₂ O	0.03148
KCl	0.3118	L-Isoleucine	0.05447
NaHCO ₃	—	L-Leucine	0.05905
NaCl	6.996	L-Lysine HCl	0.09125
NaSiO ₃ 9H ₂ O	—	L-Methionine	0.01724
Na ₂ SeO ₃	—	L-Phenylalanine	0.03548
NaHCO ₃	1.2	L-Proline	0.01725
Na ₂ HPO ₄ , anhydrous	0.07102	L-Serine	0.02625
NaH ₂ PO ₄ , anhydrous	0.0543	L-Threonine	0.05345
SnCl ₂ 7H ₂ O	—	L-Tryptophan	0.00902
ZnSO ₄ 7H ₂ O	0.000432	L-Tyrosine 2Na 2H ₂ O	0.05579
		L-Valine	0.05285

Vitamins	g/L	Other	
D-Biotin	0.0000035	D-Glucose	3.15
Choline Chloride	0.00898	HEPES	3.575
Folic Acid	0.00266	Hypoxanthine	0.00239
myo -Inositol	0.0126	Linoleic Acid	0.000042
Niacinamide	0.00202	Phenol Red	-
D-Pantothenic Acid	0.00202	Putrescine	0.000081
Pyridoxal HCl	0.002	Pyruvic Acid	0.055
Pyridoxine HCl	0.000031	DL-Thioctic Acid	0.000105
Riboflavin	0.000219	Thymidine	0.000365
Thiamine HCl	0.00217	EGF	5 x 10 ⁻⁶
Vitamin B12	0.00068	Bovine Pituitary Extrac	0.04



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Product Specifications

Unit Size	500 mL
Shipping	This product is shipped frozen.
Storage	Store at < -20°C
Stability	2 years at < -20°C; 3 months at 4°C
pH	7.1 - 7.4
Osmolality	280 - 300 mOsM

Material Safety Data

FOR RESEARCH USE ONLY. NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. Do not ingest, swallow or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. For complete safety information see full Material Safety Data Sheet.