

DMEM/F12

Dulbecco's Modified Eagle Medium/F12 Cell Culture Media



Product Description

A 1:1 blend of DMEM and Ham's F-12, this medium balances rich nutrients with trace elements, supporting a wide range of adherent and suspension cultures. Frequently used for epithelial, fibroblast, and neuronal cells, DMEM/F12 offers versatility in serum-containing or defined formulations, making it a staple for specialized research protocols.

Specifications

Product	DMEM/F12 1.2 g/L Sodium Bicarbonate	DMEM/F12 1.2 g/L Sodium Bicarbonate 15 mM HEPES	DMEM/F12 2.4 g/L Sodium Bicarbonate
SKU (Powder)	65160	-	65161
SKU (Liquid)	65100	65101	65102
Appearance	Transparent Liquid	Transparent Liquid	Transparent Liquid
pH	6.6 - 7.4	7.0 - 7.4	7.0 - 7.4
Osmolality (mOsm/kg)	285 - 315	285 - 315	290 - 330
Sterility	Pass	Pass	Pass
Endotoxin (EU/ml)	<2	<2	<2

Packaging

Format	Sizes	
Liquid	Bottle (500ml & 1L) Bags (200L)	<i>Additional sizes available upon request Inquire for disposable bag information including material of construction, designs and L&E</i>
Powder	100g, 20 KG	

Shelf Life

A 12-month shelf life has been assigned for cell culture media based on alignment with industry-standard shelf designations for classical media formulations of similar composition. Internal stability studies are being conducted to confirm shelf life for Liquid and DPM.

Storage

Dry powder and liquid media should be stored at 2-8 °C, protected from the light.
For Research Use or Further Manufacturing Only

DMEM/F12 Base Formula

No.	Component	CAS No.	g/L (+/- 2%)
1	GLYCINE	56-40-6	0.01875
2	L-ALANINE	56-41-7	0.00445
3	L-ARGININE-HCL	1119-34-2	0.1475
4	L-ASPARAGINE-H2O	5794-13-8	0.0075
5	L-ASPARTIC ACID	56-84-8	0.00665
6	L-CYSTINE-2HCL	30925-07-06	0.03129
7	L-CYSTEINE HCL H2O	1880366	0.01756
8	L-GLUTAMIC ACID	56-86-0	0.00735
9	L-HISTIDINE-HCL-H2O	5934-29-2	0.03148
10	L-ISOLEUCINE	73-32-5	0.05447
11	L-LEUCINE	61-90-5	0.05905
12	L-LYSINE-HCL	657-27-2	0.09125
13	L-METHIONINE	63-68-3	0.01724
14	L-PHENYLALANINE	63-91-2	0.03548
15	L-PROLINE	147-85-3	0.01725
16	L-SERINE	56-45-1	0.02625
17	L-THREONINE	72-19-5	0.05345
18	L-TRYPTOPHAN	73-22-3	0.00902
19	L-TYROSINE-2NA-2H2O	122666-87-9	0.05579
20	L-VALINE	72-18-4	0.05285
21	D-BIOTIN	58-85-5	0.0000035
22	CHOLINE CHLORIDE	67-48-1	0.00898
23	CALCIUM D-PANTOTHENATE	0137-08-06	0.00224
24	FOLIC ACID	59-30-3	0.00265
25	NIACINAMIDE (NICOTINAMIDE)	98-92-0	0.00202
26	PYRIDOXINE-HCL	58-56-0	0.002
27	RIBOFLAVIN	83-88-5	0.000219
28	THIAMINE-HCL	67-03-8	0.00217
29	VITAMIN B12 (CYANOCOBALAMIN)	68-19-9	0.00068
30	MYO-INOSITOL	87-89-8	0.0126
31	CALCIUM CHLORIDE (ANHY)	10043-52-4	0.1166
32	COPPER SULFATE PENTAHYDRATE	7758-99-8	0.0000013
33	FERRIC NITRATE-9H2O	7782-61-8	0.00005
34	FERROUS SULFATE-7H2O	7782-63-0	0.000417
35	MAGNESIUM CHLORIDE (ANHY)	7786-30-3	0.02864
36	MAGNESIUM SULFATE (ANHY)	7487-88-9	0.04884
37	POTASSIUM CHLORIDE	7447-40-7	0.3118
38	SODIUM BICARBONATE	144-55-8	1.2
39	SODIUM CHLORIDE	7647-14-5	6.9955
40	SODIUM PHOSPHATE DIBASIC (ANHY)	7558-79-4	0.07102
41	SODIUM PHOSPHATE MONOBASIC H2O	10049-21-5	0.0625
42	ZINC SULFATE-7H2O	7446-20-0	0.000432
43	GLUCOSE	50-99-7	3.151
44	HYPOXANTHINE-NA	45738-97-4	0.00239
45	LINOLEIC ACID	60-33-3	0.000042
46	DL-ALPHA-LIPOIC ACID	1077-28-7	0.000105
47	PHENOL RED-NA	34487-61-1	0.0081
48	PUTRESCINE-2HCL	333-93-7	0.000081
49	SODIUM PYRUVATE	113-24-6	0.055
50	THYMIDINE SYNTHETIC	50-89-5	0.000365
	Total		12.83

Contact info@phb1.com to request a sample or quote



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