CAPTIVATE BIO™

DMEM/F12

with L-glutamine

High quality cell culture performance

Captivate Bio's DMEM/F12 Medium is formulated for superior quality, reliability, and consistency for use in mammalian cell cultures. DMEM/F12 is a widely used serum-free, basal medium for supporting the growth of many different mammalian cells including hPSCs, MDCK, glial cells, fibroblasts, human endothelial cells, and rat fibroblasts.

This DMEM/F12 is modified as follows:

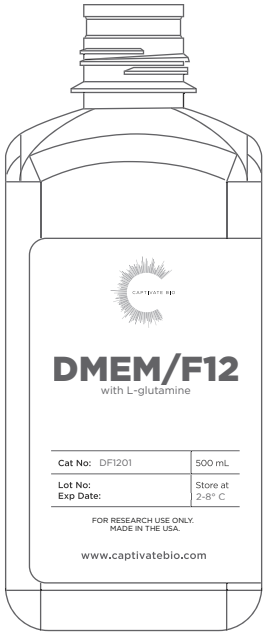
With	Without
• L-glutamine	• HEPES
• Phenol Red	
• Sodium Pyruvate	

Storage and handling

We recommend that DMEM/F12 be stored at 2-8°C and protected from light. DMEM/F12 uses a sodium bicarbonate buffer system and will require a 5–10% CO_2 environment to maintain physiological pH. Always use aseptic techniques when handling and supplementing cell culture media.

Product Information	CAT NO	QTY
DMEM/F12 Medium	DF1201	500 mL
	DF1201CS	12 x 500 mL

* Custom formulations and bulk packaging available.



High Quality Medium

Made in the USA

Reliable Formulation

Customizable

Quality Specifications			
Intended use	Mammalian cell culture, hPSCs, fibroblasts, human, mouse, rat, non-human Primate, other cells.		
Glutamine	L-glutamine	**HEPES Buffer**	No HEPES
Phenol Red Indicator	Phenol Red	**Shelf-Life**	12 months from date of manufacture
pH	7.0-7.4	**Storage**	2-8° C protect from light
Osmolality	290-330 mOsm/kg	**Sterility**	Pass

For more information, visit captivatebio.com, email orders@captivatebio.com, or contact us at (617) 607-4017.

DMEM/F12 with L-Glutamine

Catalog Number(s): DF1201, DF1201CS

Components	Molecular Weight	mg/L	mM
Amino Acids			
Glycine	75	18.75	0.250000
L-Alanine	89	4.45	0.050000
L-Arginine hydrochloride	211	147.5	0.699052
L-Asparagine-H2O	150	7.5	0.050000
L-Aspartic acid	133	6.65	0.050000
L-Cysteine hydrochloride-H2O	176	17.56	0.099773
L-Cystine 2HCl	313	31.29	0.099968
L-Glutamic Acid	147	7.35	0.050000
L-Glutamine	146	365	2.500000
L-Histidine hydrochloride-H2O	210	31.48	0.149905
L-Isoleucine	131	54.47	0.415802
L-Leucine	131	59.05	0.450763
L-Lysine hydrochloride	183	91.25	0.498634
L-Methionine	149	17.24	0.115705
L-Phenylalanine	165	35.48	0.215030
L-Proline	115	17.25	0.150000
L-Serine	105	26.25	0.250000
L-Threonine	119	53.45	0.449160
L-Tryptophan	204	9.02	0.044216
L-Tyrosine disodium salt dihydrate	261	55.79	0.213755
L-Valine	117	52.85	0.451709
Vitamins			
Biotin	244	0.0035	0.000014
Choline chloride	140	8.98	0.064143
D-Calcium pantothenate	477	2.24	0.004696
Folic Acid	441	2.65	0.006009
Niacinamide	122	2.02	0.016557
Pyridoxine hydrochloride	206	2.013	0.009772
Riboflavin	376	0.219	0.000582
Thiamine hydrochloride	337	2.17	0.006439
Vitamin B12	1355	0.68	0.000502
i-Inositol	180	12.6	0.070000

MEDIA FORMULATION

CAPTIVATE BIO™

Components	Molecular Weight	mg/L	mM
Inorganic Salts			
Calcium Chloride (CaCl2) (anhyd.)	111	116.6	1.050450
Cupric sulfate (CuSO4-5H2O)	250	0.0013	0.000005
Ferric Nitrate (Fe(NO3)3"9H2O)	404	0.05	0.000124
Ferric sulfate (FeSO4-7H2O)	278	0.417	0.001500
Magnesium Chloride (anhydrous)	95	28.64	0.301474
Magnesium Sulfate (MgSO4) (anhyd.)	120	48.84	0.407000
Potassium Chloride (KCl)	75	311.8	4.157333
Sodium Chloride (NaCl)	58	6995.5	120.612070
Sodium Phosphate dibasic (Na2HPO4) anhydrous	142	71.02	0.500141
Sodium Phosphate monobasic (NaH2PO4-H2O)	138	62.5	0.452899
Zinc sulfate (ZnSO4-7H2O)	288	0.432	0.001500
Other Components			
D-Glucose (Dextrose)	180	3151	17.505556
Hypoxanthine Na	159	2.39	0.015031
Linoleic Acid	280	0.042	0.000150
Lipoic Acid	206	0.105	0.000510
Phenol Red	376.4	8.1	0.021520
Putrescine 2HCl	161	0.081	0.000503
Sodium Pyruvate	110	55	0.500000
Thymidine	242	0.365	0.001508
Sodium Bicarbonate	84	2438	29.021391