

DMEM:F12 1:1 Mixture
w/ L-Glutamine, w/o HEPES

BE04-687



Description	CAS #	Chemical Formula	Concentration		Molarity	
			g/L	mg/L	mM	uM
D-Glucose anhydrous	50-99-7	C6H12O6	3.151	3.151E+03	17.490	1.749E+04
Fe(NO3)3.9H2O	7782-61-8	Fe(NO3)3 • 9H2O	5.000E-05	5.000E-02	1.238E-04	0.124
KCl	7447-40-7	KCl	0.312	311.830	4.183	4.183E+03
NaCl	7647-14-5	NaCl	7.003	7.003E+03	119.833	1.198E+05
Sodium Pyruvate	113-24-6	CH3COCO2Na	0.110	110.000	1.000	999.636
L-Alanine	56-41-7	HO2CCH(NH2)CH3	4.450E-03	4.450	4.995E-02	49.949
L-Arginine.HCl	1119-34-2	C6H14N4O2 • HCl	0.147	147.350	0.699	699.468
L-Asparagine.H2O	5794-13-8	NH2COCH2CH(NH2)COOH • H2O	7.500E-03	7.500	4.996E-02	49.957
L-Aspartic Acid	56-84-8	HO2CCH(NH2)CH2CO2H	6.650E-03	6.650	4.996E-02	49.962
Glycine	56-40-6	HO2CCH2NH2	1.875E-02	18.750	0.250	249.767
L-Glutamic Acid	56-85-9	C5H10N2O3	7.350E-03	7.350	5.029E-02	50.291
L-Histidine.HCl.H2O	5934-29-2	C6H9N3O2 • HCl • H2O	3.148E-02	31.480	0.150	150.191
L-Isoleucine	73-32-5	HO2CCH(NH2)CH(CH3)CH2CH3	5.437E-02	54.370	0.415	414.500
L-Leucine	61-90-5	HO2CCH(NH2)CH2CH(CH3)2	5.896E-02	58.960	0.449	449.493
L-Lysine.HCl	657-27-2	C6H14N2O2 • HCl	9.137E-02	91.370	0.500	500.246
L-Methionine	63-68-3	HO2CCH(NH2)CH2CH2SCH3	1.724E-02	17.240	0.116	115.550
L-Phenylalanine	63-91-2	HO2CCH(NH2)CH2C6H5	3.548E-02	35.480	0.215	214.783
L-Serine	56-45-1	HO2CCH(NH2)CH2OH	2.625E-02	26.250	0.250	249.786
L-Threonine	72-19-5	HO2CCH(NH2)CH(OH)CH3	5.355E-02	53.550	0.450	449.547
L-Tryptophane	73-22-3	C11H12N2O2	9.020E-03	9.020	4.417E-02	44.166
L-Valine	72-18-4	HO2CCH(NH2)CH(CH3)2	5.266E-02	52.660	0.450	449.701
L-Proline	147-85-3	C5H9NO2	1.727E-02	17.270	0.150	150.004
D-Calcium Pantothenate	137-08-6	C18H32CaN2O10	2.120E-03	2.120	4.449E-03	4.449
Folic Acid	59-30-3	C19H19N7O6	2.662E-03	2.662	6.031E-03	6.031
Myo-Inositol	87-89-8	C6H12O6	1.251E-02	12.510	6.944E-02	69.438
Nicotinamide	98-92-0	C6H6N2O	2.020E-03	2.020	1.654E-02	16.542
Pyridoxine HCl	65-22-5	C8H9NO3 • HCl	2.030E-03	2.030	9.971E-03	9.971
Riboflavine	83-88-5	C17H20N4O6	2.200E-04	0.220	5.845E-04	0.585
Thiamine.HCl	67-03-8	C12H18N4OSCl2	2.170E-03	2.170	6.433E-03	6.433
D-Biotin (Vitamin H)	58-85-5	C10H16N2O3S	4.000E-06	4.000E-03	1.637E-05	0.016
Vitamin B12	68-19-9	C63H88CoN14O14P	6.800E-04	0.680	5.017E-04	0.502
FeSO4.7H2O	7782-63-0	FeSO4 • 7H2O	4.200E-04	0.420	1.511E-03	1.511
ZnSO4.7H2O	7446-20-0	ZnSO4 • 7H2O	4.300E-04	0.430	1.496E-03	1.496
Hypoxanthine	N/A	C5H2N4ONa2	2.040E-03	2.040	1.133E-02	11.326
Lipoic Acid	1077-28-7	C8H14O2S2	1.030E-04	0.103	4.992E-04	0.499
Thymidine	50-89-5	C10H14N2O5	3.600E-04	0.360	1.486E-03	1.486
Choline Chloride	67-48-1	HOCH2CH2N(CH3)3Cl	8.980E-03	8.980	6.431E-02	64.313
L-Cysteine.HCl.H2O	4/6/7048	C3H7NO2S • HCl • H2O	1.756E-02	17.560	0.100	100.000
Putrescine.2HCl	333-93-7	NH2(CH2)4NH2 • 2HCl	8.100E-05	8.100E-02	5.029E-04	0.503
Linoleic Acid Methylster	112-63-0	C19H34O2	4.400E-05	4.400E-02	1.494E-04	0.149
L-Tyrosine.2Na.2H2O	122666-78-9	C9H9NO3Na2 • 2H2O	5.581E-02	55.810	0.214	213.676
L-Cystine.2HCl	30925-07-6	C6H12N2O4S2.2HCl	3.129E-02	31.290	9.990E-02	99.904
Na2HPO4 anhydrous	7558-79-4	Na2HPO4	7.098E-02	70.980	0.500	499.859
MgSO4 anhydrous	7487-88-9	MgSO4	4.885E-02	48.850	0.406	405.832
MgCl2 anhydrous	7786-30-3	MgCl2	2.857E-02	28.570	0.300	300.074
NaH2PO4 Anhydrous	7558-80-7	NaH2PO4	5.435E-02	54.350	0.453	452.917
CuSO4.5H2O	7758-99-8	CuSO4 • 5H2O	1.200E-06	1.200E-03	4.806E-06	0.005
CaCl2.2H2O	10035-04-8	CaCl2.2H2O	0.154	153.636	1.045	1.045E+03
L-Glutamine	56-85-9	C5H10N2O3	0.365	365.100	2.498	2.498E+03
NaHCO3	144-55-8	NaHCO3	1.200	1.200E+03	14.284	1.428E+04
Phenol Red Salt Sodium	34487-61-1	C19H14O5S	8.00E-03	8.000	2.125E-02	21.254