

DMEM:F12 1:1 Mix  
w/ UltraGlutamine  
w/o HEPES

BE04-687/U1



Description	CAS #	Chemical Formula	Concentration		Molarity	
			mg/L	ug/L	mM	uM
D-Glucose anhydrous	50-99-7	C6H12O6	3.151E+03	3.151E+06	17.490	1.749E+04
Fe(NO3)3.9H2O	7782-61-8	Fe(NO3)3 • 9H2O	5.000E-02	50.000	1.238E-04	0.124
KCl	7447-40-7	KCl	311.830	3.118E+05	4.183	4.183E+03
NaCl	7647-14-5	NaCl	7.000E+03	7.000E+06	119.772	1.198E+05
Sodium Pyruvate	113-24-6	CH3COCO2Na	110.000	1.100E+05	1.000	999.636
L-Alanine	56-41-7	HO2CCH(NH2)CH3	4.450	4.450E+03	4.995E-02	49.949
L-Arginine.HCl	1119-34-2	C6H14N4O2 • HCl	147.350	1.474E+05	0.699	699.468
L-Asparagine.H2O	5794-13-8	NH2COCH2CH(NH2)COOH • H2O	7.500	7.500E+03	4.996E-02	49.957
L-Aspartic Acid	56-84-8	HO2CCH(NH2)CH2CO2H	6.650	6.650E+03	4.996E-02	49.962
Glycine	56-40-6	HO2CCH2NH2	18.750	1.875E+04	0.250	249.767
L-Glutamic Acid	56-85-9	C5H10N2O3	7.350	7.350E+03	5.029E-02	50.291
L-Histidine.HCl.H2O	5934-29-2	C6H9N3O2 • HCl • H2O	31.480	3.148E+04	0.150	150.191
L-Isoleucine	73-32-5	HO2CCH(NH2)CH(CH3)CH2CH3	54.370	5.437E+04	0.415	414.500
L-Leucine	61-90-5	HO2CCH(NH2)CH2CH(CH3)2	58.960	5.896E+04	0.449	449.493
L-Lysine.HCl	657-27-2	C6H14N2O2 • HCl	91.370	9.137E+04	0.500	500.246
L-Methionine	63-68-3	HO2CCH(NH2)CH2CH2SCH3	17.240	1.724E+04	0.116	115.550
L-Phenylalanine	63-91-2	HO2CCH(NH2)CH2C6H5	35.480	3.548E+04	0.215	214.783
L-Serine	56-45-1	HO2CCH(NH2)CH2OH	26.250	2.625E+04	0.250	249.786
L-Threonine	72-19-5	HO2CCH(NH2)CH(OH)CH3	53.550	5.355E+04	0.450	449.547
L-Tryptophane	73-22-3	C11H12N2O2	9.020	9.020E+03	4.417E-02	44.166
L-Valine	72-18-4	HO2CCH(NH2)CH(CH3)2	52.660	5.266E+04	0.450	449.701
L-Proline	147-85-3	C5H9NO2	17.270	1.727E+04	0.150	150.004
D-Calcium Pantothenate	137-08-6	C18H32CaN2O10	2.120	2.120E+03	4.449E-03	4.449
Folic Acid	59-30-3	C19H19N7O6	2.662	2.662E+03	6.031E-03	6.031
Myo-Inositol	87-89-8	C6H12O6	12.510	1.251E+04	6.944E-02	69.438
Nicotinamide	98-92-0	C6H6N2O	2.020	2.020E+03	1.654E-02	16.542
Pyridoxine HCl	65-22-5	C8H9NO3 • HCl	2.030	2.030E+03	9.971E-03	9.971
Riboflavine	83-88-5	C17H20N4O6	0.220	220.000	5.845E-04	0.585
Thiamine.HCl	67-03-8	C12H18N4OSCl2	2.170	2.170E+03	6.433E-03	6.433
D-Biotin (Vitamin H)	58-85-5	C10H16N2O3S	4.000E-03	4.000	1.637E-05	0.016
Vitamin B12	68-19-9	C63H88CoN14O14P	0.680	680.000	5.017E-04	0.502
FeSO4.7H2O	7782-63-0	FeSO4 • 7H2O	0.420	420.000	1.511E-03	1.511
ZnSO4.7H2O	7446-20-0	ZnSO4 • 7H2O	0.430	430.000	1.496E-03	1.496
Hypoxanthine	N/A	C5H2N4ONa2	2.040	2.040E+03	1.133E-02	11.326
Lipoic Acid	1077-28-7	C8H14O2S2	0.103	103.000	4.992E-04	0.499
Thymidine	50-89-5	C10H14N2O5	0.360	360.000	1.486E-03	1.486
Choline Chloride	67-48-1	HOCH2CH2N(CH3)3Cl	8.980	8.980E+03	6.431E-02	64.313
L-Cysteine.HCl.H2O	4/6/7048	C3H7NO2S • HCl • H2O	17.560	1.756E+04	0.100	100.000
Putrescine.2HCl	333-93-7	NH2(CH2)4NH2 • 2HCl	8.100E-02	81.000	5.029E-04	0.503
Linoleic Acid Methyleneester	112-63-0	C19H34O2	4.400E-02	44.000	1.494E-04	0.149
L-Tyrosine.2Na.2H2O	122666-78-9	C9H9NO3Na2 • 2H2O	55.810	5.581E+04	0.214	213.676
L-Cystine.2HCl	30925-07-6	C6H12N2O4S2.2HCl	31.290	3.129E+04	9.990E-02	99.904
Na2HPO4 anhydrous	7558-79-4	Na2HPO4	70.980	7.098E+04	0.500	499.859
MgSO4 anhydrous	7487-88-9	MgSO4	48.850	4.885E+04	0.406	405.832
MgCl2 anhydrous	7786-30-3	MgCl2	28.570	2.857E+04	0.300	300.074
NaH2PO4 Anhydrous	7558-80-7	NaH2PO4	54.350	5.435E+04	0.453	452.917
CuSO4.5H2O	7758-99-8	CuSO4 • 5H2O	1.200E-03	1.200	4.806E-06	0.005
CaCl2.2H2O	10035-04-8	CaCl2.2H2O	153.636	1.536E+05	1.045	1.045E+03
Ultraglutarine I	39537-23-0	C8H15N3O4	868.000	8.680E+05	3.996	3.996E+03
NaHCO3	144-55-8	NaHCO3	1.200E+03	1.200E+06	14.284	1.428E+04
Phenol Red Salt Sodium	34487-61-1	C19H14O5S	8.000	8.000E+03	2.125E-02	21.254