

# Ingredients of MEM alpha, with nucleosides

Cat.No.MG8675-S

Components	Molecular Weight	Concentration (mg/L)	mM
<b>Amino Acids</b>			
Glycine	75	50	0.6666667
L-Alanine	89	25	0.28089887
L-Arginine hydrochloride	211	105	0.49763033
L-Asparagine-H2O	150	50	0.33333334
L-Aspartic acid	133	30	0.22556391
L-Cysteine hydrochloride-H2O	176	100	0.5681818
L-Cystine 2HCl	313	31	0.09904154
L-Glutamic Acid	147	75	0.5102041
L-Glutamine	146	292	2
L-Histidine	155	31	0.2
L-Isoleucine	131	52.4	0.4
L-Leucine	131	52	0.39694658
L-Lysine	183	73	0.3989071
L-Methionine	149	15	0.10067114
L-Phenylalanine	165	32	0.19393939
L-Proline	115	40	0.3478261
L-Serine	105	25	0.23809524
L-Threonine	119	48	0.40336135
L-Tryptophan	204	10	0.04901961
L-Tyrosine disodium salt	225	52	0.23111111
L-Valine	117	46	0.3931624
<b>Vitamins</b>			
Ascorbic Acid	176	50	0.2840909

Biotin	244	0.1	4.10E-04
Choline chloride	140	1	0.007142857
D-Calcium pantothenate	477	1	0.002096436
Folic Acid	441	1	0.002267574
Niacinamide	122	1	0.008196721
Pyridoxal hydrochloride	204	1	0.004901961
Riboflavin	376	0.1	2.66E-04
Thiamine hydrochloride	337	1	0.002967359
Vitamin B12	1355	1.36	0.00100369
i-Inositol	180	2	0.011111111
<b>Inorganic Salts</b>			
Calcium Chloride (CaCl <sub>2</sub> ) (anhyd.)	111	200	1.8018018
Magnesium Sulfate (MgSO <sub>4</sub> ) (anhyd.)	120	97.67	0.8139166
Potassium Chloride (KCl)	75	400	5.3333335
Sodium Bicarbonate (NaHCO <sub>3</sub> )	84	2200	26.190475
Sodium Chloride (NaCl)	58	6800	117.24138
Sodium Phosphate monobasic (NaH <sub>2</sub> PO <sub>4</sub> -H <sub>2</sub> O)	138	140	1.0144928
<b>Ribonucleosides</b>			
Adenosine	267	10	0.037453182
Cytidine	243	10	0.041152265
Guanosine	283	10	0.03533569
Uridine	244	10	0.040983606
<b>Deoxyribonucleosides</b>			
2'Deoxyadenosine	251	10	0.03984064
2'Deoxyctidine HCl	264	11	0.041666668
2'Deoxyguanosine	267	10	0.037453182
Thymidine	242	10	0.041322313
<b>Other Components</b>			
D-Glucose (Dextrose)	180	1000	5.5555553
Lipoic Acid	206	0.2	9.71E-04

Phenol Red	376.4	10	0.026567481
Sodium Pyruvate	110	110	1