



Media Formulation

MEM Alpha Powder

Cat. No.: CC133-1000

Components	Concentration (mg/L)
Amino Acids	
Glycine	50.0
L-Alanine	25.0
L-Arginine	105.0
L-Asparagine-H ₂ O	50.0
L-Aspartic acid	30.0
L-Cysteine hydrochloride-H ₂ O	100.0
L- Cystine 2HCl	31.0
L-Glutamic Acid	75.0
L-Glutamine	292.0
L-Histidine	31.0
L-Isoleucine	52.4
L-Leucine	52.4
L-Lysine	73.0
L-Methionine	15.0
L-Phenylalanine	32.0
L-Proline	40.0
L-Serine	25.0
L-Threonine	48.0
L-Tryptophan	10.0
L-Tyrosine disodium salt	52.0
L-Valine	46.0
Vitamins	
Ascorbic Acid	50.0
Biotin	0.1
Choline chloride	1.0
D-Calcium pantothenate	1.0
Folic Acid	1.0

Components	Concentration (mg/L)
Niacinamide	1.0
Pyridoxal hydrochloride	1.0
Riboflavin	0.1
Thiamine hydrochloride	1.0
Vitamin B12	1.36
i-Inositol	2.0
Inorganic Salts	
Calcium Chloride (CaCl ₂) (anhyd.)	200.0
Magnesium Sulfate (MgSO ₄)(anhyd.)	97.67
Potassium Chloride (KCl)	400.0
Sodium Chloride (NaCl)	6800.0
Sodium Phosphate monobasic (NaH ₂ PO ₄ ·H ₂ O)	140.0
Ribonucleosides	
Adenosine	10.0
Cytidine	10.0
Guanosine	10.0
Uridine	10.0
Deoxyribonucleosides	
2'Deoxyadenosine	10.0
2'Deoxycytidine HCl	11.0
2'Deoxyguanosine	10.0
Thymidine	10.0
Other Components	
D-Glucose (Dextrose)	1000.0
Lipoic Acid	0.2
Phenol Red	10.0
Sodium Pyruvate	110.0