



Media Formulation

MEM Powder, NEAA Cat. No.: CC137-1010

Components	Concentration (mg/L)
Amino Acids	
Glycine	7.5
L-Alanine	8.9
L-Arginine hydrochloride	126.0
L-Asparagine-H ₂ O	15.0
L-Aspartic acid	13.3
L-Cystine 2HCl	31.28
L-Glutamic Acid	14.7
L-Glutamine	292.0
L-Histidine hydrochloride-H ₂ O	42.0
L-Isoleucine	52.0
L-Leucine	52.0
L-Lysine hydrochloride	72.5
L-Methionine	15.0
L-Phenylalanine	32.0
L-Proline	11.5
L-Serine	10.5
L-Threonine	48.0
L-Tryptophan	10.0
L-Tyrosine disodium salt dihydrate	51.9
L-Valine	46.0
Vitamins	
Choline chloride	1.0
D-Calcium pantothenate	1.0
Folic Acid	1.0

Components	Concentration (mg/L)
Niacinamide	1.0
Pyridoxine hydrochloride	1.0
Riboflavin	0.1
Thiamine hydrochloride	1.0
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
Other Components	
D-Glucose (Dextrose)	1000.0
Phenol Red	10.0