

Formulations

MINIMUM ESSENTIAL MEDIUM ALPHA MODIFICATION (α MEM)

Cat.# 112-036

COMPONENTS	mg / L
Inorganic Acids	
CaCl ₂ •2H ₂ O	264.90
KCl	400.00
MgSO ₄ (anhydrous)	97.67
NaCl	6800.00
NaHCO ₃	2200.00
NaH ₂ PO ₄ •H ₂ O	140.00
Other Components	
Adenosine	10.00*
2'Deoxyadenosine	10.00*
2'Deoxyctidine•HCl	11.00*
2'Deoxyguanosine	10.00*
Cytidine	10.00*
D-Glucose	1000.00
Guanosine	10.00*
Lipoic acid	0.20
Phenol red•Na	10.00
Sodium pyruvate	110.00
Thymidine	10.00*
Uridine	10.00*
Amino Acids	
L-Alanine	25.00
L-Arginine•HCl	126.98
L-Asparagine•H ₂ O	50.00
L-Cysteine•2HCl•H ₂ O	100.00
L-Cystine•2HCl	31.29
L-Glutamic acid	75.00
L-Glutamine	292.00
Glycine	50.00
L-Histidine•HCl•H ₂ O	42.00
L-Isoleucine	52.50
L-Leucine	52.50
L-Lysine•HCl	72.46
L-Methionine	15.00
L-Phenylalanine	32.00
L-Proline	40.00
L-Serine	25.00
L-Threonine	48.00
L-Tryptophan	10.00
L-Tyrosine•2Na•2H ₂ O	51.90
L-Valine	46.00

Vitamins	
D-Ca pantothenate	1.00
Choline chloride	1.00
Folic acid	1.00
i-Inositol	2.00
Nicotamide	1.00
Pyridoxal•HCl	1.00
Riboflavin	0.10
Thiamine•HCl	1.00
*Omitted from preparation.	
Reference: Stanners, C.P., Eliceiri, G.L., Green, H., (1971) Nature, 230 :52-54	