

Formulations

MINIMUM ESSENTIAL MEDIUM WITH EARLE'S SALTS (EMEM)

COMPONENTS	Cat.# 112-039 mg / L
Inorganic Salts	
CaCl ₂ •2H ₂ O	
KCl	400.00
MgCl ₂ •6H ₂ O	200.00
MgSO ₄ (anhydrous)	97.67
NaCl	6800.00
NaHCO ₃	2200.00
NaH ₂ PO ₄	
NaH ₂ PO ₄ •H ₂ O	140.00
Other Components	
D-Glucose	1000.00
Phenol red•Na	5.00
Penicillin G	100 units/ml
Streptomycin	100 µg/ml
Amino Acids	
L-Arginine•HCl	252.00
L-Cystine•2HCl	62.60
L-Glutamine	584.00
L-Histidine•HCl•H ₂ O	84.00
L-Isoleucine	104.00
L-Leucine	104.00
L-Lysine•HCl	145.00
L-Methionine	30.00
L-Phenylalanine	64.00
L-Threonine	96.00
L-Tryptophan	20.00
L-Tyrosine•2Na•2H ₂ O	103.78
L-Valine	92.00
Vitamins	
D-Ca pantothenate	2.00
Choline chloride	2.00
Folic acid	2.00
i-Inositol	4.00
Nicotinamide	2.00
Pyridoxal•HCl	2.00
Riboflavin	0.20
Thiamine•HCl	2.00

*Omitted from preparation. Add L-glutamine (Cat.# 118-084-060) to a 1X solution to a final concentration of 2mM prior to use.

References: Eagle, H., (1959) Science, **130**:432-437

Morton H.J., (1970) In Vitro, **6**:89-108