

Basal Medium Eagle (BME)

Catalog No.	50-005 Powder EBME	50-006 Powder HBME
Inorganic Salts	mg/L	mg/L
CaCl ₂ (anhydrous)	200.00	140.04
KCl	400.00	400.00
KH ₂ PO ₄	--	60.00
MgSO ₄ (anhydrous)	97.67	97.70
NaCl	6800.00	8000.00
NaH ₂ PO ₄ •H ₂ O	140.00	--
Na ₂ HPO ₄ (anhydrous)	--	47.50
Amino Acids		
L-Arginine•HCl	21.00	21.06
L-Cystine•2HCl	15.65	15.55
L-Glutamine	292.30	292.30
L-Histidine•HCl•H ₂ O	15.00	10.50
L-Isoleucine	26.00	26.23
L-Leucine	26.00	26.23
L-Lysine•HCl	36.47	36.53
L-Methionine	7.50	7.46
L-Phenylalanine	16.50	16.51
L-Threonine	24.00	23.82
L-Tryptophan	4.00	4.08
L-Tyrosine•2Na•2H ₂ O	25.95	26.11
L-Valine	23.50	23.43
Vitamins		
Biotin	1.00	1.00
D-Calcium pantothenate	1.00	1.00
Choline chloride	1.00	1.00
Folic acid	1.00	1.00
i-Inositol	2.00	2.00
Nicotinamide	1.00	1.00
Pyridoxine•HCl	1.00	1.00
Riboflavin	0.10	0.10
Thiamine•HCl	1.00	1.00
Other		
D-Glucose	1000.00	1000.00
Phenol red, Na	10.00	17.00
Add		
NaHCO ₃		
Powder (g/L)	2.20	0.35
7.5% Solution (mL/L)	29.40	4.70
Specifications		
pH (before buffer)	5.7 ± 0.5	6.5 ± 0.5
pH (after buffer)	7.5 ± 0.2	7.3 ± 0.5
Osmolality (mOsm/kg)	285 ± 15	296 ± 30
Grams of powder required to prepare 1L (1X Solution)	9.19	10.30