

Alpha Modification of Eagle's Medium (AMEM)

Catalog No.	10-022 1X, Liquid AMEM	15-012 1X, Liquid AMEM	50-012 Powder AMEM	90-012 Powder AMEM
Inorganic Salts	mg/L	mg/L	mg/L	mg/L
CaCl ₂ (anhydrous)	200.00	200.00	200.00	200.00
KCl	400.00	400.00	400.00	400.00
MgSO ₄ (anhydrous)	97.70	97.70	97.70	97.70
NaCl	6800.00	6800.00	6800.00	6800.00
NaH ₂ PO ₄ • H ₂ O	140.00	140.00	140.00	140.00
NaHCO ₃	2200.00	2200.00	--	--
Amino Acids				
L-Alanine	25.00	25.00	25.00	25.00
L-Arginine • HCl	126.40	126.40	126.40	126.40
L-Asparagine • H ₂ O	50.00	50.00	50.00	50.00
L-Aspartic acid	30.00	30.00	30.00	30.00
L-Cysteine • HCl • H ₂ O	100.00	100.00	100.00	100.00
L-Cystine • 2HCl	31.20	31.20	31.20	31.20
L-Glutamic acid	75.00	75.00	75.00	75.00
L-Glutamine	292.00	--	292.00	--
Glycine	50.00	50.00	50.00	50.00
L-Histidine • HCl • H ₂ O	41.90	41.90	41.90	41.90
L-Isoleucine	52.50	52.50	52.50	52.50
L-Leucine	52.50	52.50	52.50	52.50
L-Lysine • HCl	72.50	72.50	72.50	72.50
L-Methionine	15.00	15.00	15.00	15.00
L-Phenylalanine	32.50	32.50	32.50	32.50
L-Proline	40.00	40.00	40.00	40.00
L-Serine	25.00	25.00	25.00	25.00
L-Threonine	47.60	47.60	47.60	47.60
L-Tryptophan	10.00	10.00	10.00	10.00
L-Tyrosine • 2Na • 2H ₂ O	51.90	51.90	51.90	51.90
L-Valine	46.80	46.80	46.80	46.80
Vitamins				
Ascorbic acid	50.00	50.00	50.00	50.00
Biotin	0.10	0.10	0.10	0.10
D-Calcium pantothenate	1.00	1.00	1.00	1.00
Choline chloride	1.00	1.00	1.00	1.00
Folic acid	1.00	1.00	1.00	1.00
i-Inositol	2.00	2.00	2.00	2.00
Nicotinamide	1.00	1.00	1.00	1.00
Pyridoxine • HCl	1.00	1.00	1.00	1.00
Riboflavin	0.10	0.10	0.10	0.10
Thiamine • HCl	1.00	1.00	1.00	1.00
Vitamin B ₁₂	1.36	1.36	1.36	1.36

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Other	mg/L	mg/L	mg/L	mg/L
D-Glucose	1000.00	1000.00	1000.00	1000.00
Lipoic acid	0.20	0.20	0.20	0.20
Phenol red, Na	10.00	10.00	10.00	--
Sodium pyruvate	110.00	110.00	110.00	110.00
Nucleosides				
Thymidine	10.00	--	--	--
Adenosine	10.00	--	--	--
Cytidine	10.00	--	--	--
Guanosine	10.00	--	--	--
Uridine (anhydrous)	10.00	--	--	--
2'-Deoxyadenosine	10.00	--	--	--
2'-Deoxycytidine • HCl	11.00	--	--	--
2'-Deoxyguanosine	10.00	--	--	--
Add				
NaHCO ₃				
Powder (g/L)	--	--	2.20	2.20
7.5% Solution (mL/L)	--	--	29.33	29.33
L-Glutamine				
Powder (mg/L)	--	292.00	--	292.00
200 mM Solution (mL/L)	--	10.00	--	10.00
Specifications				
pH (before buffer)	n/a	n/a	3.5 ± 0.5	3.5 ± 0.5
pH (after buffer)	7.2 ± 0.2	7.2 ± 0.2	7.0 ± 0.5	7.0 ± 0.5
Osmolality (mOsm/kg)	290 ± 15	290 ± 30	290 ± 30	290 ± 30
Grams of powder required to prepare 1L (1X Solution)	n/a	n/a	10.09	9.78

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