



Catalog Number: 1031120

Alpha Modification of Eagle's Medium (AMEM), powder, with L-glutamine, without deoxyribosides, ribosides, sodium bicarbonate

Description: Originally used for growth of hamster kidney cells.

Reference: Stanners, C.P., et al., *Nature New Biol.*, v. **230**, 52 (1971).

Formulation:

Components	mg/L	Mol. Wt.	Mol. (mM)
Amino Acids			
L-Alanine	25.00	89.1	0.28
L-Arginine HCl	126.40	174.2	0.73
L-Asparagine H ₂ O	50.00	150.1	0.33
L-Aspartic Acid	30.00	133.1	0.23
L-Cysteine HCl H ₂ O	100.00	175.6	0.57
L-Cystine 2HCl	31.20	313.2	0.10
L-Glutamic Acid	75.00	147.1	0.51
L-Glutamine	292.00	146.1	2.00
Glycine	50.00	75.07	0.67
L-Histidine HCl H ₂ O	41.90	209.6	0.20
L-Isoleucine	52.50	131.2	0.40
L-Leucine	52.50	131.2	0.40
L-Lysine HCl	72.50	182.6	0.40
L-Methionine	15.00	149.2	0.10
L-Phenylalanine	32.50	165.2	0.20
L-Proline	40.00	115.1	0.35
L-Serine	25.00	105.1	0.24
L-Threonine	47.60	119.1	0.40
L-Tryptophan	10.00	204.2	0.05

L-Tyrosine 2Na 2H ₂ O	51.90	261.2	0.20
L-Valine	46.80	117.1	0.40
Vitamins			
Biotin	0.10	244.3	0.0004
Choline Chloride	1.00	139.6	0.0072
D-Calcium Pantothenate	1.00	238.3	0.0042
Folic Acid	1.00	441.4	0.0023
L-Ascorbic Acid	50.00	176.1	0.2839
myo-Inositol	2.00	180.2	0.0111
Nicotinamide	1.00	122.13	0.0082
Pyridoxine HCl	1.00	205.6	0.0049
Riboflavin	0.10	376.4	0.0003
Thiamine HCl	1.00	337.3	0.0030
Vitamin B12	1.36	1355.4	0.0010
Inorganic Salts			
Calcium Chloride [CaCl ₂]	200.00	111	1.80
Magnesium Sulfate [MgSO ₄]	97.70	120.4	0.81
Potassium Chloride [KCl]	400.00	74.55	5.37
Sodium Chloride [NaCl]	6800.00	58.44	116.36
Sodium Phosphate Monobasic [NaH ₂ PO ₄ H ₂ O] Monohydrate	140.00	159.96	0.88
Other			
Dextrose	1000.00	180.2	5.55
Lipoic Acid	0.20	206.3	0.0010
Phenol Red Sodium Salt	10.00	376.4	0.03
Sodium Pyruvate	110.00	110	1.00
Nucleosides			
Thymidine	0.00		
Adenosine	0.00		
Cytidine	0.00		
Guanosine	0.00		

Uridine	0.00		
2'-Deoxyadenosine	0.00		
2'-Deoxycytidine HCl	0.00		
2'-Deoxyguanosine	0.00		
Add			
NaHCO ₃ Powder (g/L)		2.200	
NaHCO ₃ 7.5% Solution (mL/L)		29.400	
2-Deoxyadenosine (mg/L)		10	
2-Deoxycytidine (mg/L)		10	
2-Deoxyguanosine (mg/L)		10	
Thymidine (mg/L)		10	
Adenosine (mg/L)		10	
Cytidine (mg/L)		10	
Guanosine (mg/L)		10	
Uridine (mg/L)		10	

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