



Catalog Number: 1031122

## 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:**

<b>Components</b>	<b>mg/L</b>	<b>Mol. Wt.</b>	<b>Mol. (mM)</b>
<b>Amino Acids</b>			
L-Alanine	25.00	89.1	0.28
L-Arginine HCl	126.40	174.2	0.73
L-Asparagine H <sub>2</sub> O	50.00	150.1	0.33
L-Aspartic Acid	30.00	133.1	0.23
L-Cysteine HCl H <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> O	51.90	261.2	0.20
L-Valine	46.80	117.1	0.40
<b>Vitamins</b>			
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
<b>Inorganic Salts</b>			
Calcium Chloride [CaCl <sub>2</sub> ]	200.00	111	1.80
Magnesium Sulfate [MgSO <sub>4</sub> ]	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 <sub>2</sub> PO <sub>4</sub> H <sub>2</sub> O] Monohydrate	140.00	159.96	0.88
<b>Other</b>			
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
<b>Nucleosides</b>			
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		
<b>Add</b>			
NaHCO <sub>3</sub> Powder (g/L)		2.200	
NaHCO <sub>3</sub> 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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