

CELLGRO MEDIATECH brand AMEM

Alpha Modification of Eagle's Medium (AMEM)

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

Catalog No.	10-022 1X, Liquid AMEM	15-012 1X, Liquid AMEM
<b>Other</b>	<b>mg/L</b>	<b>mg/L</b>
D-Glucose	1000.00	1000.00
Lipoic acid	0.20	0.20
Phenol red, Na	10.00	10.00
Sodium pyruvate	110.00	110.00
<b>Nucleosides</b>		
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	—
<b>Add</b>		
NaHCO <sub>3</sub> Powder (g/L)	—	—
7.5% Solution (mL/L)	—	—
L-Glutamine Powder (mg/L)	—	292.00
200 mM Solution (mL/L)	—	10.00
<b>Specifications</b>		
pH (before buffer)	N/A	N/A
pH (after buffer)	7.2 ± 0.2	7.2 ± 0.2
Osmolality (mOsm)	290 ± 15	290 ± 30
Grams of powder required to prepare 1L (1X Solution)	N/A	N/A

CELLGRO MEDIATECH brand AMEM

Alpha Modification of Eagle's Medium (AMEM)

Catalog No.	50-012 Powder AMEM	90-012 Powder AMEM
<b>Inorganic Salts</b>	<b>mg/L</b>	<b>mg/L</b>
CaCl <sub>2</sub> (anhydrous)	200.00	200.00
KCl	400.00	400.00
MgSO <sub>4</sub> (anhydrous)	97.70	97.70
NaCl	6800.00	6800.00
NaH <sub>2</sub> PO <sub>4</sub> •H <sub>2</sub> O	140.00	140.00
NaHCO <sub>3</sub>	—	—
<b>Amino Acids</b>		
L-Alanine	25.00	25.00
L-Arginine•HCl	126.40	126.40
L-Asparagine•H <sub>2</sub> O	50.00	50.00
L-Aspartic acid	30.00	30.00
L-Cysteine•HCl•H <sub>2</sub> O	100.00	100.00
L-Cystine•2HCl	31.20	31.20
L-Glutamic acid	75.00	75.00
L-Glutamine	292.00	—
Glycine	50.00	50.00
L-Histidine•HCl•H <sub>2</sub> O	41.90	41.90
L-Isoleucine	52.50	52.50
L-Leucine	52.50	52.50
L-Lysine•HCl	72.50	72.50
L-Methionine	15.00	15.00
L-Phenylalanine	32.50	32.50
L-Proline	40.00	40.00
L-Serine	25.00	25.00
L-Threonine	47.60	47.60
L-Tryptophan	10.00	10.00
L-Tyrosine•2Na•2H <sub>2</sub> O	51.90	51.90
L-Valine	46.80	46.80
<b>Vitamins</b>		
Ascorbic acid	50.00	50.00
Biotin	0.10	0.10
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
Vitamin B <sub>12</sub>	1.36	1.36

Catalog No.	50-012 Powder AMEM	90-012 Powder AMEM
<b>Other</b>	<b>mg/L</b>	<b>mg/L</b>
D-Glucose	1000.00	1000.00
Lipoic acid	0.20	0.20
Phenol red, Na	10.00	—
Sodium pyruvate	110.00	110.00
<b>Nucleosides</b>		
Thymidine	—	—
Adenosine	—	—
Cytidine	—	—
Guanosine	—	—
Uridine (anhydrous)	—	—
2'-Deoxyadenosine	—	—
2'-Deoxycytidine•HCl	—	—
2'-Deoxyguanosine	—	—
<b>Add</b>		
NaHCO <sub>3</sub> Powder (g/L)	2.20	2.20
7.5% Solution (mL/L)	29.33	29.33
L-Glutamine Powder (mg/L)	—	292.00
200 mM Solution (mL/L)	—	10.00
<b>Specifications</b>		
pH (before buffer)	3.5 ± 0.5	3.5 ± 0.5
pH (after buffer)	7.0 ± 0.5	7.0 ± 0.5
Osmolality (mOsm)	290 ± 30	290 ± 30
Grams of powder required to prepare 1L (1X Solution)	10.09	9.78