

Product Data Sheet

MEM with Earle's Salts, with L-Glutamine, Sterile-Filtered
Product No. GB-MEM-500A

Product Specifications

CO ₂ concentration, optimum	5.0 %
pH	7.0 - 7.5
Osmolality	260 - 320 mOsm/kg
Colour and Appearance	Clear red orange solution
Endotoxin	<1 EU/ml (<0.1 ng/ml)
Cell Culture	Tested
Sterility	Tested
Storage	+2°to +8°C protected from light

Formulation

Components	Concentration mg/l	Molecular Weight g/mol	Concentration mM
Amino Acids			
L-Alanyl-L-Glutamine (in E0500-290)	434.00	217.22	2.00
L-Arginine HCl	126.00	210.66	0.60
L-Cystine 2 HCl	31.30	240.30	0.13
L-Glutamine (in E0500-280)	292.00	146.15	2.00
L-Histidine HCl H ₂ O	42.00	209.63	0.20
L-Isoleucine	52.00	131.17	0.40
L-Leucine	52.00	131.17	0.40
L-Lysine HCl	72.50	182.65	0.40
L-Methionine	15.00	149.21	0.10
L-Phenylalanine	32.00	165.19	0.20
L-Threonine	48.00	119.12	0.40
L-Tryptophan	10.00	204.23	0.05
L-Tyrosine 2 Na 2 H ₂ O	51.90	261.19	0.20
L-Valine	46.00	117.15	0.39

Components	Concentration mg/l	Molecular Weight g/mol	Concentration mM
Vitamins			
Choline chloride	1.00	139.62	0.0072
D-Calcium Pantothenate	1.00	476.53	0.0021
Folic Acid	1.00	441.40	0.0023
myo-Inositol	2.00	180.16	0.0111
Nicotinamide	1.00	122.12	0.0082
Pyridoxal HCl	1.00	203.62	0.0049
Riboflavin	0.10	376.36	0.00027
Thiamine HCl	1.00	337.27	0.0030
Inorganic Salts			
Calcium Chloride 2 H ₂ O	265.00	147.01	1.80
Magnesium Sulfate	97.67	120.37	0.81
Potassium Chloride	400.00	74.55	5.37
Sodium Bicarbonate	2200.00	84.01	26.19
Sodium Chloride	6800.00	58.44	116.36
Sodium Phosphate Monobasic Anhydrous	122.00	119.98	1.02
Other Components			
D-Glucose	1000.00	180.16	5.55
Phenol Red Sodium Salt	11.0	376.36	0.29

Precautions and Disclaimer

This product is for research use only.