

Product Information

Minimal Essential Medium (MEM) with Earle's Salts

Product	Volume	Cat. No.
MEM with Earle's Salts, w/o L-Glutamine	500 ml	E0500-270
MEM with Earle's Salts, with L-Glutamine	500 ml	E0500-280
MEM with Earle's Salts, with Stable Glutamine	500 ml	E0500-290

Product Description

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 (<i>in E0500-290</i>)	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 (<i>in E0500-280</i>)	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

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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. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.