

## Product Information

Minimal Essential Medium (MEM) with Earle's Salts, with Stable Glutamine

Cat. No.: MEM-STA (500 ml)

### Product Specifications

CO <sub>2</sub> 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°C to +8°C protected from light

### Formulation

Components	Concentration mg/l	Molecular Weight g/mol	Concentration mM
<b>Amino Acids</b>			
L-Alanyl-L-Glutamine	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-Histidine HCl H <sub>2</sub> 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 <sub>2</sub> O	51.90	261.19	0.20
L-Valine	46.00	117.15	0.39
<b>Vitamins</b>			
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

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Thiamine HCl	1.00	337.27	0.0030
<b>Inorganic Salts</b>			
Calcium Chloride 2 H <sub>2</sub> 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
<b>Other Components</b>			
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.

### Help needed?

If you have any further questions regarding this product please do not hesitate to contact our cell culture experts:

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