

## Product Information

Minimal Essential Medium (MEM) Alpha Modification, w/o L-Glutamine, w/o Nucleosides, sterile-filtered  
 Cat. No.: MEMA-XXA (500 ml)

### Product Specifications

CO <sub>2</sub> concentration, optimum	5.0 %
pH	7.0 – 7.5
Osmolality	260 – 340 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, do not freeze!

### Formulation

Components		Vitamins	
Amino Acids	mg/l		mg/l
L-Alanine	25.00	Ascorbic Acid · Na	50.00
L-Arginine · HCl	126.00	D-Biotin	0.10
L-Asparagine · H <sub>2</sub> O	50.00	Choline chloride	1.00
L-Aspartic Acid	30.00	D-Calcium Pantothenate	1.00
L-Cysteine · HCl · H <sub>2</sub> O	100.00	Folic Acid	1.00
L-Cystine · 2HCl	31.30	myo-Inositol	2.00
L-Glutamic Acid	75.00	Nicotinamide	1.00
Glycine	50.00	Pyridoxal HCl	1.00
L-Histidine · HCl · H <sub>2</sub> O	42.00	Riboflavin	0.10
L-Isoleucine	52.00	Thiamine HCl	1.00
L-Leucine	52.00	Vitamin B12	1.36
L-Lysine · HCl	72.50	Inorganic Salts	
L-Methionine	15.00	CaCl <sub>2</sub> · 2 H <sub>2</sub> O	200.00
L-Phenylalanine	32.00	MgSO <sub>4</sub> (anhydrous)	97.67
L-Proline	40.00	KCl	400.00
L-Serine	25.00	NaHCO <sub>3</sub>	2200.00
L-Threonine	48.00	NaCl	6800.00
L-Tryptophan	10.00	Na <sub>2</sub> HPO <sub>4</sub> (anhydrous)	122.00
L-Tyrosine · 2 Na · H <sub>2</sub> O	51.90	Other Components	
L-Valine	46.00	D-Glucose	1000.00
		Lipoic Acid	0.20

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Phenol Red · Na	11.0
Sodium Pyruvate	110.00

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### 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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