

## Product Information

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

### Product Specifications

Appearance	Clear red orange solution
CO <sub>2</sub> concentration, optimum	5.0 %
Storage and shelf life	Store at +2°C to +8°C protected from light. Do not freeze! Once opened, store at 4°C and use within 6-8 weeks.
Shipping conditions	Ambient

### Formulation

Components	Concentration mg/L
<b>Amino Acids:</b>	
L-Alanine	25.00
L-Arginine HCl	126.00
L-Asparagine H <sub>2</sub> O	50.00
L-Aspartic Acid	30.00
L-Cysteine HCl H <sub>2</sub> O	100.00
L-Cystine 2HCl	31.30
L-Glutamic Acid	75.00
Glycine	50.00
L-Histidine HCl H <sub>2</sub> O	42.00
L-Isoleucine	52.00
L-Leucine	52.00
L-Lysine HCl	72.50
L-Methionine	15.00
L-Phenylalanine	32.00
L-Proline	40.00
L-Serine	25.00
L-Threonine	48.00
L-Tryptophan	10.00
L-Tyrosine 2 Na H <sub>2</sub> O	51.90
L-Valine	46.00
<b>Vitamins:</b>	
Ascorbic Acid Na	50.00
D-Biotin	0.10
Choline chloride	1.00
myo-Inositol	2.00
Folic Acid	1.00

Components	Concentration mg/L
D-Calcium Pantothenate	1.00
Nicotinamide	1.00
Pyridoxal HCl	1.00
Riboflavin	0.10
Thiamine HCl	1.00
Vitamin B12	1.36
<b>Inorganic Salts:</b>	
CaCl <sub>2</sub> 2 H <sub>2</sub> O	200.00
MgSO <sub>4</sub> (anhydrous)	97.67
KCl	400.00
NaHCO <sub>3</sub>	2200.00
NaCl	6800.00
Na <sub>2</sub> HPO <sub>4</sub> (anhydrous)	122.00
<b>Other Components:</b>	
D-Glucose	1000.00
Lipoic Acid	0.20
Phenol Red Sodium Salt	11.0
Sodium Pyruvate	110.00

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## Precautions and Disclaimer

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This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

## Help Needed?

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If you have any further questions regarding this product please do not hesitate to contact our cell culture experts by email ([techservice@capricorn-scientific.com](mailto:techservice@capricorn-scientific.com)) or phone (+49 6424 944640).