

## Product Information

Medium 199 with Earle's Salts, with L-Glutamine  
Cat. No. M199-A (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. 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	70.00
L-Aspartic Acid	30.00
L-Cysteine HCl H <sub>2</sub> O	0.11
L-Cystine 2HCl	26.00
L-Glutamic Acid	66.80
L-Glutamine	100.00
Glycine	50.00
L-Histidine HCl H <sub>2</sub> O	21.88
L-Hydroxy-L-Proline	10.00
L-Isoleucine	20.00
L-Leucine	60.00
L-Lysine HCl	70.00
L-Methionine	15.00
L-Phenylalanine	25.00
L-Proline	40.00
L-Serine	25.00
L-Threonine	30.00
L-Tryptophan	10.00
L-Tyrosine 2Na 2H <sub>2</sub> O	57.66
L-Valine	25.00
<b>Vitamins:</b>	
Ascorbic Acid	0.056
D-Biotin	0.01
Calciferol	0.10
Choline chloride	0.50
D-Calcium Pantothenate	0.01
Folic Acid	0.01
Menadione Sodium Bisulfite	0.016
myo-Inositol	0.05

Components	Concentration mg/L
Nicotinamide	0.025
Nicotinic Acid	0.025
Paraaminobenzoic Acid	0.05
Pyridoxal HCl	0.025
Pyridoxine HCl	0.025
Riboflavin	0.01
Thiamine HCl	0.01
Vitamin A (Acetate)	0.14
(±)-α-Tocopherol Phosphate 2Na	0.01
<b>Inorganic Salts:</b>	
CaCl <sub>2</sub> 2H <sub>2</sub> O	265.00
Fe(NO <sub>3</sub> ) <sub>3</sub> 9 H <sub>2</sub> O	0.72
MgSO <sub>4</sub> (anhydrous)	97.67
KCl	400.00
Na Acetate (anhydrous)	50.00
NaHCO <sub>3</sub>	2200.00
NaCl	6800.00
NaH <sub>2</sub> PO <sub>4</sub> (anhydrous)	122.00
<b>Other Components:</b>	
2-Deoxy-D-Ribose	0.50
Adenine Sulfate	10.00
Adenosine 5'-Phosphate	0.24
Adenosine 5'-Triphosphate 2Na	1.00
Cholesterol	0.20
D-Glucose	1000.00
L-Glutathione (reduced)	0.05
Guanine HCl	0.30
Hypoxanthine	0.30

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Phenol Red Sodium Salt	21.3
D-Ribose	0.50
Thymine	0.30
Tween® 80	20.00
Uracil	0.30
Xanthine Na	0.34

Tween is a registered trademark of Croda International PLC.

### Precautions and Disclaimer

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This product is for research and further manufacturing 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).