



Media Formulation

Medium 199

Cat. No.: CC121-0500

Components	Concentration (mg/L)
Amino Acids	
Glycine	50.0
L-Alanine	25.0
L-Arginine hydrochloride	70.0
L-Aspartic acid	30.0
L-Cysteine hydrochloride-H ₂ O	0.1
L-Cystine 2HCl	26.0
L-Glutamic Acid	75.0
L-Glutamine	100.0
L-Histidine hydrochloride-H ₂ O	21.88
L-Hydroxyproline	10.0
L-Isoleucine	40.0
L-Leucine	60.0
L-Lysine hydrochloride	70.0
L-Methionine	15.0
L-Phenylalanine	25.0
L-Proline	40.0
L-Serine	25.0
L-Threonine	30.0
L-Tryptophan	10.0
L-Tyrosine disodium salt dihydrate	58.0
L-Valine	25.0
Vitamins	
Ascorbic Acid	0.05
Biotin	0.01
Choline chloride	0.5
D-Calcium pantothenate	0.01
Folic Acid	0.01

Components	Concentration (mg/L)
Menadione (Vitamin K3)	0.01
Niacinamide	0.025
Nicotinic acid (Niacin)	0.025
Para-Aminobenzoic Acid	0.05
Pyridoxal hydrochloride	0.025
Pyridoxine hydrochloride	0.025
Riboflavin	0.01
Thiamine hydrochloride	0.01
Vitamin A (acetate)	0.1
Vitamin D (Calciferol)	0.1
Alpha Tocopherol phos. Na salt	0.01
i-Inositol	0.05
Inorganic Salts	
Calcium Chloride (CaCl ₂) (anhyd.)	200.0
Ferric nitrate (Fe(NO ₃)-9H ₂ O)	0.7
Magnesium Sulfate (MgSO ₄) (anhyd.)	97.67
Potassium Chloride (KCl)	400.0
Sodium Bicarbonate (NaHCO ₃)	2200.0
Sodium Chloride (NaCl)	6800.0
Sodium Phosphate monobasic (NaH ₂ PO ₄ -H ₂ O)	140.0
Other Components	
2-deoxy-D-ribose	0.5
Adenine sulfate	10.0
Adenosine 5'-phosphate	0.2
Adenosine 5'-triphosphate	1.0
Cholesterol	0.2
D-Glucose (Dextrose)	1000.0
Glutathione (reduced)	0.05



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Guanine hydrochloride	0.3
Hypoxanthine Na	0.4
Phenol Red	20.0
Ribose	0.5
Sodium Acetate	50.0
Thymine	0.3
Tween 80 ®	20.0
Uracil	0.3
Xanthine-Na	0.34