

Product Data Sheet

Medium 199, with L-Glutamine, Sterile-Filtered
Product No. GB-M-500A

Product Specifications

CO ₂ concentration, optimum	5.0 %
pH	7.0 - 7.5
Osmolality	280 - 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

Formulation

Components	Concentration mg/l	Molecular Weight g/mol	Concentration mM
Amino Acids			
L-Alanine	50.00	89.09	0.56
L-Arginine HCl	70.00	210.66	0.33
L-Aspartic Acid	60.00	133.10	0.45
L-Cysteine HCl H ₂ O	0.11	176.00	0.0006
L-Cystine 2HCl	26.00	240.30	0.11
L-Glutamic Acid	133.60	147.13	0.91
L-Glutamine	100.00	146.15	0.68
Glycine	50.00	75.07	0.67
L-Histidine HCl H ₂ O	21.88	209.63	0.10
L-Hydroxy-L-Proline	10.00	131.00	0.08
L-Isoleucine	40.00	131.17	0.30
L-Leucine	120.00	131.17	0.91
L-Lysine HCl	70.00	182.65	0.38
L-Methionine	30.00	149.21	0.20
L-Phenylalanine	50.00	165.19	0.30
L-Proline	40.00	115.13	0.35
L-Serine	50.00	105.09	0.48
L-Threonine	60.00	119.12	0.50



GOSLAR BIOTECH

Your Partner in Sera

L-Tryptophan	20.00	204.23	0.10
L-Tyrosine 2Na 2H ₂ O	57.66	225.15	0.26
L-Valine	50.00	117.15	0.43

Vitamins			
Ascorbic Acid	0.056	176.12	3.1
D-Biotin	0.01	244.31	4.0
Choline chloride	0.50	139.62	0.
D-Calcium Pantothenate	0.01	476.53	2.1
Folic Acid	0.01	441.40	2.2
Menadione Sodium Bisulfite	0.016	276.24	5.7
myo-Inositol	0.05	180.16	2.7
Nicotinamide	0.025	122.12	2.0
Nicotinic Acid	0.025	123.11	2.0
Paraaminobenzoic Acid	0.05	137.14	3.6
Pyridoxal HCl	0.025	203.62	1.2
Pyridoxine HCl	0.025	205.64	1.2
Riboflavin	0.01	376.36	2.6
Thiamine HCl	0.01	337.27	2.9
Vitamin A (Acetate)	0.14	328.49	4.2
Vitamin D2 (Ergocalciferol)	0.10	396.65	2.5
(±)-α-Tocopherol Phosphate 2Na	0.01	554.65	1.8
Inorganic Salts			
Calcium Chloride 2H ₂ O	265.00	147.01	1.80
Ferric Nitrate 9 H ₂ O	0.72	404.00	0.0018
Magnesium Sulfate	97.67	120.37	0.81
Potassium Chloride	400.00	74.55	5.37
Sodium Bicarbonate	1250.00	84.01	17.88
Sodium Chloride	6800.00	58.44	116.36
Sodium Phosphate Monobasic Anhydrous	122.00	119.98	1.02
Other Components			
2-Deoxy-D-Ribose	0.50	134.13	0.004
Adenine Sulfate	10.00	184.17	0.05
Adenosine 5'-Phosphate	0.24	365.24	6.57E-4
Adenosine 5'-Triphosphate 2Na	1.00	551.14	0.002
Cholesterol	0.20	386.65	5.17E-4
D-Glucose	1000.00	180.16	5.55
L-Glutathione (reduced)	0.05	307.32	1.63E-4
Guanine	0.30	151.13	0.002
Hypoxanthine	0.30	136.11	0.002



GOSLAR BIOTECH
Your Partner in Sera

Components	Concentration mg/l	Molecular Weight g/mol	Concentration mM
Phenol Red Sodium Salt	21.3	376.36	0.057
D-Ribose	0.50	150.13	0.003
Sodium Acetate	50.00	82.00	0.61
Thymine	0.30	126.11	0.002
Tween® 80	20.00	-	Infinity
Uracil	0.30	112.09	0.003
Xanthine Na	0.34	174.09	0.002

Precautions and Disclaimer

This product is for research use only.