




Document ID:	TDS-MCL-032-500ML	Version:	005
Date of Issue:	10-JAN-2021	Approved by:	Dr. Iman Kamranfar
Review Date:	10-JAN-2023	Signature:	
Title:	TECHNICAL DATA SHEET		

Product Name	Medium 199 Medium
Filtration/Treatment	With Earle's Salts and L-Glutamine, without Phenol Red.
Product Codes	MCL-032-500ML
Shelf Life	12 months
Storage Temperature	2 to 8 °C
Shipping Temperature	ambient
Substance	Concentration (mg/L)
Amino Acids	
Glycine	50.00
L-Alanine	25.00
L-Arginine, Hydrochloride	70.00
L-Aspartic Acid	30.00
L-Cysteine, Hydrochloride, Monohydrate	0.11
L-Cystine, Dihydrochloride	26.00
L-Glutamic Acid	75.00
L-Glutamine	100.00
L-Histidine, Hydrochloride, Monohydrate	21.88
L-Hydroxyproline	10.00
L-Isoleucine	40.00
L-Leucine	60.00
L-Lysine, Hydrochloride	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, Disodium, Dihydrate	57.87
L-Valine	25.00
Vitamins	
(+/-) a-Tocopherol Phosphate, Disodium Salt	0.01
Biotin	0.01
Choline Chloride	0.50
D-Calcium Pantothenate	0.01
D-Ribose	0.50
Ergocalciferol	0.10
Folic Acid	0.01
L-Ascorbic Acid	0.05
Menadione Sodium Bisulfite	0.02
Myo-Inositol	0.05
Niacinamide	0.03
Nicotinic Acid	0.03
para-Aminobenzoic Acid	0.05
Pyridoxine, Hydrochloride	0.05
Riboflavin	0.01
Thiamine, Hydrochloride	0.01
Thymine	0.30

SPECIMEN

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Uracil	0.30
Substance	Concentration (mg/L)
Vitamin A, Acetate	0.14
Other Components	
2-Deoxy-D-Ribose	0.50
Adenine Sulfate, Dihydrate	12.13
Adenosine 5'-Monophosphate, Monohydrate	0.20
Adenosine 5'-Triphosphate, Anhydrous	1.00
Cholesterol	0.20
D-Glucose, Anhydrous	1000.00
Glutathione, Reduced	0.05
Guanine HCl	0.30
Hypoxanthine, Sodium	0.35
Polysorbate 80	20.00
Sodium Acetate, Anhydrous	50.00
Inorganic Salts	
Calcium Chloride, Anhydrous	200.00
Ferric Nitrate, Nonahydrate	0.72
Magnesium Sulfate, Anhydrous	97.70
Potassium Chloride	400.00
Sodium Bicarbonate	2200.00
Sodium Chloride	6800.00
Sodium Phosphate, Monobasic, Monohydrate	140.00
Xanthine, Monosodium Salt	0.34
Specifications	
Appearance	Clear to light yellow solution
Aerobic bacteria	Not detected
Anaerobic bacteria	Not detected
Fungi (Yeast & Mold)	Not detected
pH at RT	6.9 - 7.5
Osmolality	260 - 340 mM/kg
Endotoxin	≤ 1.0 EU/ml
Mycoplasma	Not detected
Cell Culture - Cell Growth Promotion	3 Passages
Viability	≥ 75%

THIS PRODUCT IS FOR LABORATORY USE ONLY.