




Document ID:	TDS-MCP-033-500ML	Version:	005
Date of Issue:	10-JAN-2021	Approved by:	Dr. Iman Kamranfar
Review Date:	10-JAN-2023	Signature:	
Title:	<b>TECHNICAL DATA SHEET</b>		

**SPECIMEN**

<b>Product Name</b>	Medium 199
<b>Filtration/Treatment</b>	With Earle's Salts and L-Glutamine. With Phenol Red.
<b>Product Codes</b>	MCP-033-50L
<b>Shelf Life</b>	4 years
<b>Storage Temperature</b>	2 to 8 °C
<b>Shipping Temperature</b>	ambient
<b>Substance</b>	<b>Concentration (mg/L)</b>
<b>Amino Acids</b>	
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
<b>Vitamins</b>	
(+/-) 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

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Uracil	0.30
<b>Substance</b>	<b>Concentration (mg/L)</b>
Vitamin A, Acetate	0.14
<b>Other Components</b>	
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
Phenol Red, Sodium Salt	20.00
Polysorbate 80	20.00
Sodium Acetate, Anhydrous	50.00
<b>Inorganic Salts</b>	
Calcium Chloride, Anhydrous	200.00
Ferric Nitrate, Nonahydrate	0.72
Magnesium Sulfate, Anhydrous	97.70
Potassium Chloride	400.00
Sodium Chloride	6800.00
Sodium Phosphate, Monobasic, Monohydrate	140.00
Xanthine, Monosodium Salt	0.34
<b>Specifications</b>	
Appearance	Off-white to light-orange powder
Solubility	9.48 g/L in ≤ 30 minutes
Moisture Content	≤ 2.0 %
Particle Size (100 mesh)	≥ 90%
pH without NaHCO <sub>3</sub>	4.4 - 5.0
pH with NaHCO <sub>3</sub>	7.2 - 7.8
Osmolality without NaHCO <sub>3</sub>	210 - 270 mM/kg
Osmolality with NaHCO <sub>3</sub>	270 - 310 mM/kg
Endotoxin	≤ 1.0 EU/ml
Mycoplasma	Not detected
Cell Culture – Cell Growth Promotion	3 Passages
Viability	≥ 75%

Note: Sodium Bicarbonate is not included in the powdered media (2200.00 mg/L).

**THIS PRODUCT IS FOR LABORATORY USE ONLY.**