



Document ID:	TDS-MCP-033-50L	Version:	004
Date of Issue:	30-APR-2021	Approved by:	Anna Becker
Review Date:	10-JAN-2022	Signature:	
Title:	TECHNICAL DATA SHEET		

Product Name	Medium 199
Filtration/Treatment	With Earle's Salts and L-Glutamine. With Phenol Red.
Product Codes	MCP-033-50L
Shelf Life	4 years
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-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
Uracil	0.30

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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
Phenol Red, Sodium Salt	20.00
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 Chloride	6800.00
Sodium Phosphate, Monobasic, Monohydrate	140.00
Xanthine, Monosodium Salt	0.34
Specifications	
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 ₃	4.4 - 5.0
pH with NaHCO ₃	7.2 - 7.8
Osmolality without NaHCO ₃	210 - 270 mM/kg
Osmolality with NaHCO ₃	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.