



# TECHNICAL DATA SHEET

Reference: MCP-M199

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Version Date: 15/01/2019

## Medium 199

### Powdered Media

#### Shelf Life

4 years from DOM

#### Storage

2-8°C

#### Shipping

ambient

Product Code	MCP-032	MCP-033	MCP-034
Concentrations	mg/L	mg/L	mg/L
<b>Amino Acids</b>			
Glycine	50.0000	50.0000	50.0000
L-Alanine	25.0000	25.0000	25.0000
L-Arginine, Hydrochloride	70.0000	70.0000	70.0000
L-Aspartic Acid	30.0000	30.0000	30.0000
L-Cysteine, Hydrochloride, Monohydrate	0.1100	0.1100	0.1100
L-Cystine, Dihydrochloride	26.0000	26.0000	26.0000
L-Glutamine	100.0000	100.0000	
L-Histidine, Hydrochloride, Monohydrate	21.8800	21.8800	21.8800
L-Hydroxyproline	10.0000	10.0000	10.0000
L-Isoleucine	40.0000	40.0000	40.0000
L-Leucine	60.0000	60.0000	60.0000
L-Lysine, Hydrochloride	70.0000	70.0000	70.0000
L-Methionine	15.0000	15.0000	15.0000
L-Phenylalanine	25.0000	25.0000	25.0000
L-Proline	40.0000	40.0000	40.0000
L-Serine	25.0000	25.0000	25.0000
L-Threonine	30.0000	30.0000	30.0000
L-Tryptophan	10.0000	10.0000	10.0000
L-Tyrosine, Disodium, Dihydrate	57.8690	57.8690	57.8690
L-Valine	25.0000	25.0000	25.0000
<b>Inorganic Salts</b>			
Ammonium Metavanadate			
Calcium Chloride, Anhydrous	200.0000	200.0000	200.0000
Cupric Sulfate, Pentahydrate			
Ferric Nitrate, Nonahydrate	0.7200	0.7200	0.7200
Magnesium Sulfate, Anhydrous	97.7000	97.7000	97.7000
Manganese Sulfate, Monohydrate			
Molybdc acid hexaammonium salt tetrahydrate			
Nickel Chloride, Hexahydrate			
Potassium Chloride	400.0000	400.0000	400.0000
Potassium Phosphate, dibasic			
Potassium Phosphate, Monobasic, Anhydrous			
Selenious Acid			
Sodium Chloride	6800.0000	6800.0000	6800.0000
Sodium Metasilicate, Nonahydrate			
Sodium Phosphate Dibasic, Anhydrous			
Sodium Phosphate, Monobasic, Monohydrate	140.0000	140.0000	140.0000
Xanthine, Monosodium Salt	0.3400	0.3400	0.3400
Zinc Sulfate, Heptahydrate			
<b>Other Components</b>			
2-Deoxy-D-Ribose	0.5000	0.5000	0.5000
Adenine Sulfate, Dihydrate	12.1300	12.1300	12.1300
Adenosine 5'-Monophosphate, Monohydrate	0.2000	0.2000	0.2000
Adenosine 5'-Triphosphate, Anhydrous	1.0000	1.0000	1.0000

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Cholesterol	0.2000	0.2000	0.2000
D-Glucose, Anhydrous	1000.0000	1000.0000	1000.0000
Glutathione, Reduced	0.0500	0.0500	0.0500
Guanine HCl	0.3000	0.3000	0.3000
HEPES			
Hypoxanthine, Sodium	0.3540	0.3540	0.3540
Phenol Red, Sodium Salt		20.0000	20.0000
Polysorbate 80	20.0000	20.0000	20.0000
Putrescine, Dihydrochloride			
Pyruvic Acid, Sodium Salt			
Sodium Acetate, Anhydrous	50.0000	50.0000	50.0000

#### Vitamins

(+/-) a-Tocopherol Phosphate, Disodium Salt	0.0100	0.0100	0.0100
Biotin	0.0100	0.0100	0.0100
Choline Chloride	0.5000	0.5000	0.5000
D-Calcium Pantothenate	0.0100	0.0100	0.0100
D-Ribose	0.5000	0.5000	0.5000
Ergocalciferol	0.1000	0.1000	0.1000
Folic Acid	0.0100	0.0100	0.0100
L-Ascorbic Acid	0.0500	0.0500	0.0500
Menadione			
Menadione Sodium Bisulfite	0.0159	0.0159	0.0159
Myo-Inositol	0.0500	0.0500	0.0500
Niacinamide	0.0250	0.0250	0.0250
Nicotinic Acid	0.0250	0.0250	0.0250
para-Aminobenzoic Acid	0.0500	0.0500	0.0500
Pyridoxine, Hydrochloride	0.0500	0.0500	0.0500
Riboflavin	0.0100	0.0100	0.0100
Thiamine, Hydrochloride	0.0100	0.0100	0.0100
Thymine	0.3000	0.3000	0.3000
Uracil	0.3000	0.3000	0.3000
Vitamin A, Acetate	0.1400	0.1400	0.1400
Vitamin B12			

#### Note

Sodium Bicarbonate is not included in the powdered media	2200.0000	2200.0000	2200.0000
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Specifications	MCP-032	MCP-033	MCP-034
Appearance	Off-white to Light-Orange Powder	Off-white to Light-Orange Powder	Off-white to Light-Orange Powder
Solubility	9.46 g/L in ≤ 30 minutes	9.48 g/L in ≤ 30 minutes	9.38 g/L in ≤ 30 minutes
Moisture Content	≤ 2.0 %	≤ 2.0 %	≤ 2.0 %
Particle Size (100 mesh)	≥ 90%	≥ 90%	≥ 90%
pH without NaHCO <sub>3</sub>	Record	4.4 - 5.0	Record
pH with NaHCO <sub>3</sub>	Record	7.2 - 7.8	Record
Osmolality without NaHCO <sub>3</sub>	Record	210 - 270 mM/kg	Record
Osmolality with NaHCO <sub>3</sub>	Record	270 - 310 mM/kg	Record
Endotoxin	≤ 1.0 EU/ml	≤ 1.0 EU/ml	≤ 1.0 EU/ml
Mycoplasma	Not detected	Not detected	Not detected
Cell Culture - Cell Growth Promotion	3 Passages	3 Passages	3 Passages
Viability	≥ 75%	≥ 75%	≥ 75%