



Document ID:	TDS-MCP-052-500ML	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>	MEM
<b>Filtration/Treatment</b>	With Earle's Salts and L-Glutamine and with Phenol Red
<b>Product Codes</b>	MCP-052-50L
<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>	
L-Arginine, Hydrochloride	126.40
L-Cystine, Dihydrochloride	31.20
L-Glutamic Acid	14.70
L-Glutamine	292.00
L-Histidine, Hydrochloride, Monohydrate	41.90
L-Isoleucine	52.50
L-Leucine	52.50
L-Lysine, Hydrochloride	73.00
L-Methionine	15.00
L-Phenylalanine	32.50
L-Threonine	47.60
L-Tryptophan	10.00
L-Tyrosine, Disodium, Dihydrate	51.90
L-Valine	46.80
<b>Vitamins</b>	
Choline Chloride	1.00
D-Calcium Pantothenate	1.00
Folic Acid	1.00
Myo-Inositol	2.00
Niacinamide	1.00
Pyridoxal, Hydrochloride	1.00
Riboflavin	0.10
Thiamine, Hydrochloride	1.00
<b>Other Components</b>	
D-Glucose, Anhydrous	1000.00
Phenol Red, Sodium Salt	10.00
<b>Inorganic Salts</b>	
Calcium Chloride, Anhydrous	200.00
Magnesium Sulfate, Anhydrous	97.70
Potassium Chloride	400.00
Sodium Chloride	6800.00
Sodium Phosphate, Monobasic, Monohydrate	140.00





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Specifications	
Appearance	Light orange to tan powder
Solubility	9.53 g/L in $\leq$ 30 minutes
Moisture Content	$\leq$ 2.0 %
pH without NaHCO <sub>3</sub>	5.5 - 6.7
pH with NaHCO <sub>3</sub>	6.8 - 8.0
Osmolality without NaHCO <sub>3</sub>	240-280 mM/kg
Osmolality with NaHCO <sub>3</sub>	280-320 mM/kg
Endotoxin	$\leq$ 1.0 EU/ml
Mycoplasma	Not detected
Cell Culture – Cell Growth Promotion	3 Passages
Viability	$\geq$ 75%

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

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



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