



Document ID:	TDS-MCL-052-500ML	Version:	004
Date of Issue:	30-APR-2021	Approved by:	Anna Becker
Review Date:	10-JAN-2022	Signature:	<i>Anna Becker</i>
Title:	<b>TECHNICAL DATA SHEET</b>		

<b>Product Name</b>	Minimum Essential Medium (MEM)
<b>Filtration/Treatment</b>	With Earle's Salts and L-Glutamine
<b>Product Codes</b>	MCL-052-500ML
<b>Shelf Life</b>	12 months
<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-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 Bicarbonate	2200.00
Sodium Chloride	6800.00
Sodium Phosphate, Monobasic, Monohydrate	140.00



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<b>Specifications</b>	
Appearance	Clear, red solution
Aerobic bacteria	Not detected
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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.**