





Document ID:	TDS-MCL-055-500ML	Version:	005
Date of Issue:	10-JAN-2021	Approved by:	Dr. Iman Kamranfar
Review Date:	10-JAN-2023	Signature:	
Title:	TECHNICAL DATA SHEET		

Product Name	Minimum Essential Medium (MEM)
Filtration/Treatment	With Earle's Salts and stable Glutamine
Product Codes	MCL-055-500ML
Shelf Life	18 months
Storage Temperature	2 to 8 °C
Shipping Temperature	ambient
Substance	Concentration (mg/L)
Amino Acids	
L-alanyl-L-glutamine	447.47
L-Arginine, Hydrochloride	126.40
L-Cystine, Dihydrochloride	31.20
L-Glutamic Acid	75.00
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
Vitamins	
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
Other Components	
D-Glucose, Anhydrous	1000.00
Phenol Red, Sodium Salt	10.00
Inorganic Salts	
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

SPECIMEN



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Specifications	
Appearance	Clear, red solution
Aerobic bacteria	Not detected
Anaerobic bacteria	Not detected
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.



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