





Document ID:	TDS-MCL-074-500ML	Version:	001
Date of Issue:	10-JAN-2023	Approved by:	Dr. Iman Kamranfar
Review Date:	10-JAN-2025	Signature:	
Title:	<b>TECHNICAL DATA SHEET</b>		

**SPECIMEN**

<b>Product Name</b>	Minimum Essential Medium (MEM)
<b>Filtration/Treatment</b>	With Earle's salts, and NEAAs, Without L-Glutamine
<b>Product Codes</b>	MCL-074-500ML
<b>Shelf Life</b>	24 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>	
Glycine	7.50
L-Alanine	8.90
L-Arginine, Hydrochloride	126.40
L-Asparagine Monohydrate	15.00
L-Aspartic acid	13.30
L-Cystine, Dihydrochloride	31.20
L-Glutamic Acid	14.70
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-Proline	11.50
L-Serine	10.50
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

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Sodium Phosphate, Monobasic, Monohydrate	140.00

<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 - 7.6
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.**



India Contact:  
 Life Technologies (India) Pvt. Ltd.  
 306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444  
 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com