



Document ID:	TDS-MCL-054-500ML	Version:	004
Date of Issue:	30-APR-2021	Approved by:	Anna Becker
Review Date:	10-JAN-2022	Signature:	<i>Anna Becker</i>
Title:	TECHNICAL DATA SHEET		

Product Name	Minimum Essential Medium (MEM) Alpha Modification
Filtration/Treatment	Without L-Glutamine, without Nucleosides
Product Codes	MCL-054-500ML
Shelf Life	24 months
Storage Temperature	2 to 8 °C
Shipping Temperature	ambient
Substance	Concentration (mg/L)
Amino Acids	
Glycine	50.00
L-Alanine	25.00
L-Arginine, Hydrochloride	126.40
L-Asparagine, Monohydrate	50.00
L-Aspartic Acid	30.00
L-Cysteine, Hydrochloride, Monohydrate	100.00
L-Cystine, Dihydrochloride	31.20
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	40.00
L-Serine	25.00
L-Threonine	48.00
L-Tryptophan	10.00
L-Tyrosine, Disodium, Dihydrate	52.00
L-Valine	46.00
Vitamins	
Biotin	0.10
Choline Chloride	1.00
D-Calcium Pantothenate	1.00
Folic Acid	1.00
L-Ascorbic Acid	50.00
Myo-Inositol	2.00
Niacinamide	1.00
Pyridoxal, Hydrochloride	1.00
Riboflavin	0.10
Thiamine, Hydrochloride	1.00
Vitamin B12	1.40
Other Components	
D-Glucose, Anhydrous	1000.00
Lipoic Acid (DL-Thiotic Acid)	0.20
Phenol Red, Sodium Salt	10.00
Pyruvic Acid, Sodium Salt	110.00



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Inorganic Salts	Concentration (mg/L)
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
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.