



Document ID:	TDS-MCP-052-50L	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	MEM
Filtration/Treatment	With Earle's Salts and L-Glutamine and with Phenol Red
Product Codes	MCP-052-50L
Shelf Life	4 years
Storage Temperature	2 to 8 °C
Shipping Temperature	ambient
Substance	Concentration (mg/L)
Amino Acids	
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
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 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 %
Particle Size (100 mesh)	\geq 90%
pH without NaHCO ₃	5.5 - 6.7
pH with NaHCO ₃	6.8 - 8.0
Osmolality without NaHCO ₃	240-280 mM/kg
Osmolality with NaHCO ₃	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.