



Document ID:	TDS-MCL-002-500ML	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	Dulbecco's Modified Eagle's Medium (DMEM)
Filtration/Treatment	With high Glucose, L-Glutamine and Sodium Pyruvate
Product Codes	MCL-002-500ML
Shelf Life	12 months
Storage Temperature	2 to 8 °C
Shipping Temperature	ambient
Substance	Concentration (mg/L)
Amino Acids	
Glycine	30.00
L-Arginine, Hydrochloride	84.00
L-Cystine, Dihydrochloride	63.00
L-Glutamine	584.00
L-Histidine, Hydrochloride, Monohydrate	42.00
L-Isoleucine	105.00
L-Leucine	105.00
L-Lysine, Hydrochloride	146.00
L-Methionine	30.00
L-Phenylalanine	66.00
L-Serine	42.00
L-Threonine	95.00
L-Tryptophan	16.00
L-Tyrosine, Disodium, Dihydrate	104.00
L-Valine	94.00
Vitamins	
Choline Chloride	4.00
D-Calcium Pantothenate	4.00
Folic Acid	4.00
Myo-Inositol	7.20
Niacinamide	4.00
Pyridoxine, Hydrochloride	4.00
Riboflavin	0.40
Thiamine, Hydrochloride	4.00
Other Components	
D-Glucose, Anhydrous	4500.00
Phenol Red, Sodium Salt	15.00
Pyruvic Acid, Sodium Salt	110.00



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Inorganic Salts	Concentration (mg/L)
Calcium Chloride, Anhydrous	200.00
Ferric Nitrate, Nonahydrate	0.10
Magnesium Sulfate, Anhydrous	97.67
Potassium Chloride	400.00
Sodium Bicarbonate	3700.00
Sodium Chloride	6400.00
Sodium Phosphate, Monobasic, Monohydrate	125.00
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.