



Document ID:	TDS-MCL-047-500ML	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	DMEM/ Ham's F12
Filtration/Treatment	With L-Glutamine
Product Codes	MCL-047-500ML
Shelf Life	12 months
Storage Temperature	2 to 8 °C
Shipping Temperature	ambient
Substance	Concentration (mg/L)
Amino Acids	
Glycine	18.75
L-Alanine	4.45
L-Arginine, Hydrochloride	147.50
L-Asparagine, Monohydrate	7.50
L-Aspartic Acid	6.65
L-Cysteine, Hydrochloride, Monohydrate	17.56
L-Cystine, Dihydrochloride	31.29
L-Glutamine	365.00
L-Glutamic Acid	7.35
L-Histidine, Hydrochloride, Monohydrate	31.48
L-Isoleucine	54.47
L-Leucine	59.05
L-Lysine, Hydrochloride	91.25
L-Methionine	17.24
L-Phenylalanine	35.48
L-Proline	17.25
L-Serine	26.25
L-Threonine	53.45
L-Tryptophan	9.02
L-Tyrosine, Disodium, Dihydrate	55.79
L-Valine	52.85
Vitamins	
Biotin	0.004
Choline Chloride	8.98
D-Calcium Pantothenate	2.24
Folic Acid	2.65
Myo-Inositol	12.60
Niacinamide	2.02
Pyridoxine, Hydrochloride	2.03
Riboflavin	0.22
Thiamine, Hydrochloride	2.17
Vitamin B12	0.68
Other Components	
D-Glucose, Anhydrous	3151.00
Hypoxanthine, Sodium	2.39
Linoleic Acid	0.04
Lipoic Acid (DL-Thiolic Acid)	0.11
Phenol Red, Sodium Salt	8.10

SPECIMEN



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Putrescine, Dihydrochloride	0.08
Substance	Concentration (mg/L)
Pyruvic Acid, Sodium Salt	55.00
Thymidine	0.37
Inorganic Salts	
Calcium Chloride, Anhydrous	116.60
Cupric Sulfate, Pentahydrate	0.001
Ferric Nitrate, Nonahydrate	0.05
Ferrous Sulfate, Heptahydrate	0.42
Magnesium Chloride, Anhydrous	28.61
Magnesium Sulfate, Anhydrous	48.93
Potassium Chloride	311.80
Sodium Bicarbonate	2438.00
Sodium Chloride	6995.50
Sodium Phosphate Dibasic, Anhydrous	70.96
Sodium Phosphate, Monobasic, Monohydrate	62.50
Zinc Sulfate, Heptahydrate	0.43
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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