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Date of Issue:	10-JAN-2021	Approved by:	Dr. Iman Kamranfar
Review Date:	10-JAN-2023	Signature:	
Title:	TECHNICAL DATA SHEET		

Product Name	Dulbecco's Modified Eagle's/ Ham's F12 Medium
Filtration/Treatment	With L-Glutamine and 15 mM HEPES
Product Codes	MCP-023-50L
Shelf Life	4 years
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-Glutamic Acid	7.35
L-Glutamine	365.00
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
HEPES	3574.50
Hypoxanthine, Sodium	2.39
Linoleic Acid	0.04

SPECIMEN



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Lipoic Acid (DL-Thiolic Acid)	0.11
Substance	Concentration (mg/L)
Phenol Red, Sodium Salt	8.10
Putrescine, Dihydrochloride	0.08
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 Chloride	6995.50
Sodium Phosphate Dibasic, Anhydrous	70.96
Sodium Phosphate, Monobasic, Monohydrate	62.50
Zinc Sulfate, Heptahydrate	0.43
Specifications	
Appearance	Off-white to orange powder
Solubility	15.56 g/L in ≤ 30 minutes
Moisture Content	≤ 2.0 %
Particle Size (100 mesh)	≥ 90%
pH without NaHCO ₃	5.6 - 6.0
pH with NaHCO ₃	Record
Osmolality without NaHCO ₃	260-320 mM/kg
Osmolality with NaHCO ₃	Record
Endotoxin	≤ 1.0 EU/ml
Mycoplasma	Not detected
Cell Culture – Cell Growth Promotion	3 Passages
Viability	≥ 75%

Note: Sodium Bicarbonate is not included in the powdered media (1200.00 mg/L).

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