



Document ID:	TDS-MCL-029-500ML	Version:	004
Date of Issue:	30-APR-2021	Approved by:	Anna Becker
Review Date:	10-JAN-2022	Signature:	
Title:	<b>TECHNICAL DATA SHEET</b>		

<b>Product Name</b>	Ham's F12 Medium
<b>Filtration/Treatment</b>	With L-Glutamine
<b>Product Codes</b>	MCL-029-500ML
<b>Shelf Life</b>	12 months
<b>Storage Temperature</b>	2 to 8 °C
<b>Shipping Temperature</b>	ambient
<b>Substance</b>	<b>Concentration (mg/L)</b>
<b>Amino Acids</b>	
Glycine	7.50
L-Alanine	8.90
L-Arginine, Hydrochloride	211.00
L-Asparagine, Monohydrate	15.00
L-Aspartic Acid	13.00
L-Cysteine, Hydrochloride, Monohydrate	35.00
L-Glutamine	146.00
L-Histidine, Hydrochloride, Monohydrate	21.00
L-Isoleucine	4.00
L-Leucine	13.00
L-Lysine, Hydrochloride	36.50
L-Methionine	4.50
L-Phenylalanine	5.00
L-Proline	34.50
L-Serine	10.50
L-Threonine	12.00
L-Tryptophan	2.00
L-Tyrosine, Disodium, Dihydrate	7.80
L-Valine	11.70
<b>Vitamins</b>	
Biotin	0.01
Choline Chloride	14.00
D-Calcium Pantothenate	0.50
Folic Acid	1.30
Myo-Inositol	18.00
Niacinamide	0.04
Pyridoxine, Hydrochloride	0.06
Riboflavin	0.04
Thiamine, Hydrochloride	0.30
<b>Other Components</b>	
D-Glucose, Anhydrous	1802.00
Hypoxanthine, Sodium	4.70
Linoleic Acid	0.08
Lipoic Acid (DL-Thiolic Acid)	0.21
Phenol Red, Sodium Salt	1.20
Putrescine, Dihydrochloride	0.16
Pyruvic Acid, Sodium Salt	110.00
Thymidine	0.70



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Inorganic Salts	Concentration (mg/L)
Calcium Chloride, Anhydrous	33.20
Cupric Sulfate, Pentahydrate	0.003
Ferrous Sulfate, Heptahydrate	0.83
Magnesium Chloride, Anhydrous	57.22
Potassium Chloride	223.60
Sodium Bicarbonate	1176.00
Sodium Chloride	7599.00
Sodium Phosphate Dibasic, Anhydrous	142.00
Zinc Sulfate, Heptahydrate	0.86
<b>Specifications</b>	
Appearance	Clear to light orange to pink solution
Aerobic bacteria	Not detected
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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.**