





Document ID:	TDS-MCL-043-500ML	Version:	004
Date of Issue:	30-APR-2021	Approved by:	Anna Becker
Review Date:	10-JAN-2022	Signature:	<i>Anna Becker</i>
Title:	<b>TECHNICAL DATA SHEET</b>		

<b>Product Name</b>	RPMI 1640
<b>Filtration/Treatment</b>	With 25 mM HEPES, without L-Glutamine
<b>Product Codes</b>	MCL-043-500ML
<b>Shelf Life</b>	24 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	10.00
L-Arginine, Hydrochloride	242.31
L-Asparagine, Anhydrous	50.00
L-Aspartic Acid	20.00
L-Cystine, Dihydrochloride	65.00
L-Histidine, Anhydrous	15.00
L-Hydroxyproline	20.00
L-Isoleucine	50.00
L-Leucine	50.00
L-Lysine, Hydrochloride	40.00
L-Methionine	15.00
L-Phenylalanine	15.00
L-Proline	20.00
L-Serine	30.00
L-Threonine	20.00
L-Tryptophan	5.00
L-Tyrosine, Disodium, Dihydrate	29.00
L-Valine	20.00
<b>Vitamins</b>	
Biotin	0.20
Choline Chloride	3.00
D-Calcium Pantothenate	0.25
Folic Acid	1.00
Myo-Inositol	35.00
Niacinamide	1.00
para-Aminobenzoic Acid	1.00
Pyridoxine, Hydrochloride	1.00
Riboflavin	0.20
Thiamine, Hydrochloride	1.00
Vitamin B12	0.01
<b>Other Components</b>	
D-Glucose, Anhydrous	2000.00
Glutathione, Reduced	1.00
HEPES	5958.00
Phenol Red, Sodium Salt	5.00
<b>Inorganic Salts</b>	
Calcium Nitrate, Tetrahydrate	100.00

**SPECIMEN**

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Magnesium Sulfate, Anhydrous	48.84
<b>Substance</b>	<b>Concentration (mg/L)</b>
Potassium Chloride	400.00
Sodium Bicarbonate	2000.00
Sodium Chloride	6000.00
Sodium Phosphate Dibasic, Anhydrous	800.70
<b>Specifications</b>	
Appearance	Clear, red-orange 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.**



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