



Document ID:	TDS-MCP-037-50L	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 L-Glutamine. With Phenol Red.
<b>Product Codes</b>	MCP-037-50L
<b>Shelf Life</b>	4 years
<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-Glutamine	300.00
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
Phenol Red, Sodium Salt	5.00
<b>Inorganic Salts</b>	
Calcium Nitrate, Tetrahydrate	100.00



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Substance	Concentration (mg/L)
Magnesium Sulfate, Anhydrous	48.84
Potassium Chloride	400.00
Sodium Chloride	6000.00
Sodium Phosphate Dibasic, Anhydrous	800.70
<b>Specifications</b>	
Appearance	Light-orange powder
Solubility	10.42 g/L in ≤ 30 minutes
Moisture Content	≤ 2.0 %
Particle Size (100 mesh)	≥ 90%
pH without NaHCO <sub>3</sub>	7.5 - 8.0
pH with NaHCO <sub>3</sub>	7.7 - 8.7
Osmolality without NaHCO <sub>3</sub>	Record
Osmolality with NaHCO <sub>3</sub>	260 - 320 mM/kg
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 (2000.00 mg/L).*

**THIS PRODUCT IS FOR LABORATORY USE ONLY.**