



Document ID:	TDS-MCP-043-50L	Version:	004
Date of Issue:	30-APR-2021	Approved by:	Anna Becker
Review Date:	10-JAN-2022	Signature:	<i>Anna Becker</i>
Title:	TECHNICAL DATA SHEET		

Product Name	RPMI 1640
Filtration/Treatment	With 25 mM HEPES, without L-Glutamine, with Phenol Red
Product Codes	MCP-043-50L
Shelf Life	4 years
Storage Temperature	2 to 8 °C
Shipping Temperature	ambient
Substance	Concentration (mg/L)
Amino Acids	
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
Vitamins	
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
Other Components	
D-Glucose, Anhydrous	2000.00
Glutathione, Reduced	1.00
HEPES	5958.00
Phenol Red, Sodium Salt	5.00
Inorganic Salts	
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
Specifications	
Appearance	Light-orange powder
Solubility	16.07 g/L in ≤ 30 minutes
Moisture Content	≤ 2.0 %
Particle Size (100 mesh)	≥ 90%
pH without NaHCO ₃	Record
pH with NaHCO ₃	Record
Osmolality without NaHCO ₃	Record
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 (2000.00 mg/L).

THIS PRODUCT IS FOR LABORATORY USE ONLY.