

RPMI 1640 Liquid Medium Formula

Components	Concentration (mg/L)
Amino Acids	
Glycine	10.00
L-Arginine hydrochloride	242.53
L-Asparagine monohydrate	56.9
L-Aspartic acid	20.0
L-Cystine 2HCl	65.00
L-Glutamic Acid	20.00
L-Glutamine	300.00
L-Histidine hydrochloride monohydrate	20.29
trans-4-Hydroxy-L-proline	20
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 salt dihydrate	29.00
L-Valine	20.00
Vitamins	
Biotin	0.20
Choline chloride	3.0000
D-Calcium pantothenate	0.25
Folic Acid	1.00
Niacinamide	1.00
4-Aminobenzoic acid	1.00
Pyridoxine hydrochloride	1
Riboflavin	0.200
Thiamine hydrochloride	1.00
Vitamin B12	0.01
i-Inositol	35.0
Inorganic Salts	
Calcium chloride dihydrate	62.3
Magnesium Sulfate (MgSO ₄) (anhyd.)	48.8400

Potassium Chloride (KCl)	400.00
Sodium Bicarbonate (NaHCO ₃)	2000.000
Sodium Chloride (NaCl)	6000.00
Sodium Phosphate dibasic (Na ₂ HPO ₄) anhydrous	800.00
Other Components	
D-Glucose (Dextrose)	2000.0
Glutathione (Reduced)	1
Phenol Red	5.0