

## Product Information

RPMI 1640, with L-Glutamine, with 25 mM HEPES

Cat. No.: RPMI-HA (500 ml), RMPI-HB (100 ml)

### Product Specifications

CO2 concentration, optimum	4.5%
pH	7.0 – 7.5
Osmolality	260 – 340 mOsm/kg
Colour and Appearance	Clear red orange solution
Endotoxin	<1 EU/ml (<0.1 ng/ml)
Cell Culture	Tested
Sterility	Tested
Storage	+2°C to +8°C protected from light

### Formulation

Components	Concentration mg/l	Molecular Weight g/mol	Concentration mM
<b>Amino Acids</b>			
L-Arginine	200.00	174.20	1.15
L-Asparagine	50.00	132.12	0.38
L-Aspartic Acid	20.00	133.10	0.15
L-Cystine 2HCl	65.20	240.30	0.27
L-Glutamine	300.00	146.15	2.05
Glycine	10.00	75.07	0.13
L-Glutamic Acid	20.00	147.13	0.14
L-Histidine	15.00	155.15	0.10
L-Hydroxy-L-Proline	20.00	131.13	0.15
L-Isoleucine	50.00	131.17	0.38
L-Leucine	50.00	131.17	0.38
L-Lysine HCl	40.00	182.65	0.22
L-Methionine	15.00	149.21	0.10
L-Phenylalanine	15.00	165.19	0.09
L-Proline	20.00	115.13	0.17
L-Serine	30.00	105.09	0.29
L-Threonine	20.00	119.12	0.17
L-Tryptophan	5.00	204.23	0.02
L-Tyrosine Disodium Salt Dihydrate	28.83	261.19	0.11
L-Valine	20.00	117.15	0.17

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### Vitamins

p-Amino Benzoic Acid	1.00	137.14	0.0073
D-Biotin	0.20	244.31	0.0008
Choline chloride	3.00	139.62	0.0215
D-Calcium Pantothenate	0.25	476.53	0.0005
Folic Acid	1.00	441.40	0.0023
myo-Inositol	35.00	180.16	0.1943
Nicotinamide	1.00	122.12	0.0082
Pyridoxine HCl	1.00	203.62	0.0049
Riboflavin	0.20	376.36	0.0005
Thiamine HCl	1.00	337.27	0.0030
Vitamin B12	0.005	1355.37	0.0000037

### Inorganic Salts

Calcium Nitrate 4 H <sub>2</sub> O	100.00	236.15	0.42
Magnesium Sulfate	48.84	120.37	0.41
Potassium Chloride	400.00	74.55	5.37
Sodium Bicarbonate	2000.00	84.01	23.81
Sodium Chloride	6000.00	58.44	102.67
Sodium Phosphate Dibasic Anhydrous	800.00	141.96	5.64

### Other Components

D-Glucose	4500.00	180.16	24.98
HEPES	5958.00	238.30	25.00
L-Glutathione Reduced	1.00	307.32	0.0032
Phenol Red Sodium Salt	15.90	376.36	0.04

### Precautions and Disclaimer

This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

### Help needed?

If you have any further questions regarding this product please do not hesitate to contact our cell culture experts:

Email: [techservice@capricorn-scientific.com](mailto:techservice@capricorn-scientific.com)

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