

# Formulations

## RPMI -1640 MEDIUM

COMPONENTS	Cat.# 112-024 mg/L	Cat.# 112-025 mg/L	Cat.# 112-040 mg/L
<b>Inorganic Salts</b>			
Ca(NO <sub>3</sub> ) <sub>2</sub> •4H <sub>2</sub> O	100.00	100.00	100.00
KCl	400.00	400.00	400.00
MgSO <sub>4</sub> (anhydrous)	48.83	48.83	48.83
NaCl	6000.00	6000.00	6000.00
NaHCO <sub>3</sub>	2000.00	2000.00	2000.00
Na <sub>2</sub> HPO <sub>4</sub> (anhydrous)	800.49	800.49	800.49
<b>Other Components</b>			
D-Glucose	2000.00	2000.00	2000.00
Glutathione (reduced)	1.00	1.00	1.00
Phenol red•Na	5.10	5.10	
<b>Amino Acids</b>			
L-Arginine•HCl	241.86	241.86	241.86
L-Asparagine (anhydrous)	50.00	50.00	50.00
L-Aspartic acid	20.00	20.00	20.00
L-Cystine•2HCl	65.19	65.19	65.19
L-Glutamic acid	20.00	20.00	20.00
L-Glutamine		300.00	
Glycine	10.00	10.00	10.00
L-Histidine•HCl•H <sub>2</sub> O	20.27	20.27	20.27
Hydroxy-L-proline	20.00	20.00	20.00
L-Isoleucine	50.00	50.00	50.00
L-Leucine	50.00	50.00	50.00
L-Lysine•HCl	40.00	40.00	40.00
L-Methionine	15.00	15.00	15.00
L-Phenylalanine	15.00	15.00	15.00

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Amino Acids (continued)			
L-Proline	20.00	20.00	20.00
L-Serine	30.00	30.00	30.00
L-Threonine	20.00	20.00	20.00
L-Tryptophan	5.00	5.00	5.00
L-Tyrosine•2Na•2H <sub>2</sub> O	28.83	28.83	28.83
L-Valine	20.00	20.00	20.00
Vitamins			
p-Aminobenzoic acid	1.00	1.00	1.00
d-Biotin	0.20	0.20	0.20
D-Ca pantothenate	0.25	0.25	0.25
Choline chloride	3.00	3.00	3.00
Folic acid	1.00	1.00	1.00
i-Inositol	35.00	35.00	35.00
Nicotinamide	1.00	1.00	1.00
Pyridoxine•HCl	1.00	1.00	1.00
Riboflavin	0.20	0.20	0.20
Thiamine•HCl	1.00	1.00	1.00
Vitamin B <sub>12</sub>	0.005	0.005	0.005

References: Moore, G.E., et al., (1967) *J.A.M.A.*, **199**:519-524  
Morton, H.J., (1970) *In Vitro*, **6**:89-108