

## Formulations

RPMI-1640 Medium with 25 mM HEPES Buffer and L-Glutamine

**Cat.# 112-143**

### COMPONENTS

mg/L

#### Inorganic Salts

Calcium nitrate tetrahydrate $\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$	100.00
Potassium Chloride KCl	400.00
Magnesium Sulfate $\text{MgSO}_4$ (anhydrous)	48.84
Sodium Chloride NaCl	6000.00
Sodium Bicarbonate $\text{NaHCO}_3$	2000.00
Sodium Phosphate dibasic $\text{Na}_2\text{HPO}_4$ (anhydrous)	800.00

#### Other Components

D-Glucose	2000.00
Glutathione (reduced)	1.00
Phenol Red	5.10
HEPES Free Acid	5958.00

#### Amino Acids

L-Arginine	200.00
L-Asparagine (anhydrous)	50.00
L-Aspartic acid	20.00
L-Cystine•2HCl	65.00
L-Glutamic acid	20.00
L-Glutamine	300.00
Glycine	10.00
L-Histidine	15.00
Hydroxy-L-proline	20.00
L-Isoleucine	50.00
L-Leucine	50.00
L-Lysine•HCl	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•2Na•2H <sub>2</sub> O	29.00
L-Valine	20.00

#### Vitamins

p-Aminobenzoic acid	1.00
d-Biotin	0.20

## Formulations

RPMI-1640 Medium with 25 mM HEPES Buffer and L-Glutamine

**Cat.# 112-143**

**COMPONENTS**

**mg/L**

D-Ca pantothenate	0.25
Choline chloride	3.00
Folic acid	1.00
i-Inositol	35.00
Nicotinamide (Niacinamide)	1.00
Pyridoxine, Hydrochloride	1.00
Riboflavin	0.20
Thiamine•HCl	1.00
Vitamin B12	0.005

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