

Formulations

RPMI-1640 with Glutamine XL

Cat.# 112-301

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 (MgSO_4 (anhydrous))	48.88
Sodium Chloride (NaCl)	6000.00
Sodium Bicarbonate (NaHCO_3)	2000.00
Sodium Phosphate Dibasic, Anhydrous (Na_2HPO_4)	800.00
Other Components	
D-Glucose	2000.00
Phenol Red	5.10
Glutathione, Reduced ($\text{C}_{10}\text{H}_{17}\text{N}_3\text{O}_6\text{S}$)	1.00
Para-Aminobenzoic Acid ($\text{C}_7\text{H}_7\text{NO}_2$)	1.00
Amino Acids	
Glycine ($\text{C}_2\text{H}_5\text{NO}_2$)	10.00
L-Arginine ($\text{C}_6\text{H}_{14}\text{N}_4\text{O}_2$)	200.00
L-Asparagine, Anhydrous ($\text{C}_4\text{H}_8\text{N}_2\text{O}_3$)	50.00
L-Alanyl-Glutamine	434.00
L-Aspartic Acid ($\text{C}_4\text{H}_7\text{NO}_4$)	20.00
L-Cystine, Dihydrochloride ($\text{C}_6\text{H}_{12}\text{N}_2\text{O}_4\text{S}_2 \cdot 2\text{HCl}$)	65.00
L-Glutamic Acid ($\text{C}_5\text{H}_9\text{NO}_4$)	20.00
L-Histidine, Anhydrous ($\text{C}_6\text{H}_9\text{N}_3\text{O}_2$)	15.00
L-Hydroxyproline ($\text{C}_5\text{H}_9\text{NO}_3$)	20.00
L-Isoleucine ($\text{C}_6\text{H}_{13}\text{NO}_2$)	50.00
L-Leucine ($\text{C}_6\text{H}_{13}\text{NO}_2$)	50.00
L-Lysine, Hydrochloride ($\text{C}_6\text{H}_{14}\text{N}_2\text{O}_2 \cdot \text{HCl}$)	40.00
L-Methionine ($\text{C}_5\text{H}_{11}\text{NO}_2\text{S}$)	15.00
L-Phenylalanine ($\text{C}_9\text{H}_{11}\text{NO}_2$)	15.00
L-Proline ($\text{C}_5\text{H}_9\text{NO}_2$)	20.00
L-Serine ($\text{C}_3\text{H}_7\text{NO}_3$)	30.00
L-Threonine ($\text{C}_4\text{H}_9\text{NO}_3$)	20.00
L-Tryptophan ($\text{C}_{11}\text{H}_{12}\text{N}_2\text{O}_2$)	5.00
L-Tyrosine, Disodium, Dihydrate ($\text{C}_9\text{H}_9\text{NO}_3\text{Na}_2 \cdot 2\text{H}_2\text{O}$)	29.00
L-Valine ($\text{C}_5\text{H}_{11}\text{NO}_2$)	20.00

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Vitamins	
Biotin (C ₁₀ H ₁₆ N ₂ O ₃ S)	0.20
D-Calcium Pantothenate (C ₁₈ H ₃₂ CaN ₂ O ₁₀)	0.25
Choline Chloride (C ₅ H ₁₄ ONCl)	3.00
Folic acid	1.00
i-Inositol	35.00
Niacinamide (C ₆ H ₆ N ₂ O)	1.00
Pyridoxine, Hydrochloride (C ₈ H ₁₁ NO ₃ •HCl)	1.00
Riboflavin (C ₁₇ H ₂₀ N ₄ O ₆)	0.20
Thiamine, Hydrochloride (C ₁₂ H ₁₇ ClN ₄ OS•HCl)	1.00
Vitamin B12 (C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P)	0.005