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# RPP10 FORMULATION

## RPMI 1640 Medium

With L-Glutamine.

Without Sodium Bicarbonate.

Store at 2° to 8°C.

| Components | mg/L |
|---|---|
| Calcium Nitrate, Hydrate ($Ca(NO_3)_2 \cdot 4H_2O$) | 69.49 |
| Choline Chloride ($C_5H_{14}ONCl$) | 3.000 |
| D-Biotin ($C_{10}H_{16}N_2O_3S$) | 0.200 |
| D-Calcium Pantothenate ($C_{18}H_{32}CaN_2O_{10}$) | 0.250 |
| D-Glucose, Anhydrous ($C_6H_{12}O_6$) | 2000.00 |
| Folic Acid ($C_{19}H_{19}N_7O_6$) | 1.000 |
| Glutathione, Reduced ($C_{10}H_{17}N_3O_6S$) | 1.000 |
| Glycine ($C_2H_5NO_2$) | 10.00 |
| L-Arginine, Hydrochloride ($C_6H_{14}N_4O_2 \cdot HCl$) | 242.31 |
| L-Asparagine, Monohydrate ($C_4H_8N_2O_3 \cdot H_2O$) | 56.82 |
| L-Aspartic Acid ($C_4H_7NO_4$) | 20.00 |
| L-Cystine, Dihydrochloride ($C_6H_{12}N_2O_4S_2 \cdot 2HCl$) | 65.20 |
| L-Glutamic Acid ($C_5H_9NO_4$) | 20.00 |
| L-Glutamine ($C_5H_{10}N_2O_3$) | 300.00 |
| L-Histidine, Hydrochloride, Monohydrate ($C_6H_9N_3O_2 \cdot HCl \cdot H_2O$) | 20.26 |
| L-Hydroxyproline ($C_5H_9NO_3$) | 20.00 |
| L-Isoleucine ($C_6H_{13}NO_2$) | 50.00 |
| L-Leucine ($C_6H_{13}NO_2$) | 50.00 |
| L-Lysine, Hydrochloride ($C_6H_{14}N_2O_2 \cdot HCl$) | 40.00 |
| L-Methionine ($C_5H_{11}NO_2S$) | 15.00 |
| L-Phenylalanine ($C_9H_{11}NO_2$) | 15.00 |

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| Components | mg/L |
|---|---|
| L-Proline ($C_5H_9NO_2$) | 20.00 |
| L-Serine ($C_3H_7NO_3$) | 30.00 |
| L-Threonine ($C_4H_9NO_3$) | 20.00 |
| L-Tryptophan ($C_{11}H_2N_{12}O_2$) | 5.00 |
| L-Tyrosine, Disodium, Dihydrate ($C_9H_9O_3Na_2 \cdot 2H_2O$) | 28.83 |
| L-Valine ($C_5H_{11}NO_2$) | 20.00 |
| Magnesium Sulfate, Anhydrous ($MgSO_4$) | 48.84 |
| Myo-Inositol ($C_6H_{12}O_6$) | 35.00 |
| Niacinamide/Nicotinamide ($C_6H_6N_2O$) | 1.000 |
| Phenol Red, Sodium Salt ($C_{19}H_{13}NaO_5S$) | 5.00 |
| Potassium Chloride (KCl) | 400.00 |
| Pyridoxine, Hydrochloride ($C_8H_{11}NO_3 \cdot HCl$) | 1.000 |
| Riboflavin ($C_{17}H_{20}N_4O_6$) | 0.200 |
| Sodium Chloride (NaCl) | 6000.00 |
| Sodium Phosphate Dibasic, Anhydrous ($Na_2HPO_4$) | 800.70 |
| Thiamine, Hydrochloride ($C_{12}H_{17}ClN_4OS \cdot HCl$) | 1.000 |
| Vitamin B12 ($C_{63}H_{88}CoN_{14}O_{14}P$) | 0.005 |
| ρ-Aminobenzoic Acid ($C_7H_7NO_2$) | 1.000 |

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