

RPMI-1640
w/o L-Glutamine
or Phenol Red

12-918

Lonza

| Description | CAS # | Chemical Formula | Concentration | | Molarity | |
|---|-------------|--|---------------|-----------|-----------|-----------|
| | | | g/L | mg/L | mM | uM |
| Calcium Nitrate | 13477-34-4 | Ca(NO ₃) ₂ ·4H ₂ O | 0.100 | 100.000 | 0.423 | 423.370 |
| Dextrose | 50-99-7 | C ₆ H ₁₂ O ₆ | 2.000 | 2.000E+03 | 11.101 | 1.110E+04 |
| Magnesium Sulfate Heptahydrate | 10034-99-8 | MgSO ₄ · 7H ₂ O | 0.100 | 100.000 | 0.406 | 405.729 |
| Potassium Chloride | 7447-40-7 | KCl | 0.400 | 400.000 | 5.366 | 5.366E+03 |
| Sodium Bicarbonate | 144-55-8 | NaHCO ₃ | 2.000 | 2.000E+03 | 23.807 | 2.381E+04 |
| Sodium Chloride | 7647-14-5 | NaCl | 6.000 | 6.000E+03 | 102.669 | 1.027E+05 |
| Sodium Phosphate Dibasic-7-Hydrate | 7782-85-6 | Na ₂ HPO ₄ · 7H ₂ O | 1.512 | 1.512E+03 | 5.640 | 5.640E+03 |
| L-Arginine Free Base | 74-79-3 | C ₆ H ₁₄ N ₄ O ₂ | 0.200 | 200.000 | 1.148 | 1.148E+03 |
| L-Asparagine | 70-47-3 | C ₄ H ₈ N ₂ O ₃ | 5.000E-02 | 50.000 | 0.378 | 378.444 |
| L-Aspartic Acid | 56-84-8 | HO ₂ CCH(NH ₂)CH ₂ CO ₂ H | 2.000E-02 | 20.000 | 0.150 | 150.263 |
| L-Cystine | 56-89-3 | C ₆ H ₁₂ N ₂ O ₄ S ₂ | 5.000E-02 | 50.000 | 0.208 | 208.073 |
| L-Glutamic Acid | 56-86-0 | C ₅ H ₉ NO ₄ | 2.000E-02 | 20.000 | 0.136 | 135.962 |
| Glutathione Reduced | 70-18-8 | C ₁₀ H ₁₇ N ₃ O ₆ S | 1.000E-03 | 1.000 | 3.254E-03 | 3.254 |
| Glycine | 56-40-6 | HO ₂ CCH ₂ NH ₂ | 1.000E-02 | 10.000 | 0.133 | 133.209 |
| L-Histidine, Free Base | 71-00-1 | (C ₃ N ₂ H ₃)CH ₂ CH(NH ₂)COOH | 1.500E-02 | 15.000 | 9.667E-02 | 96.674 |
| L-Hydroxyproline | 51-35-4 | C ₅ H ₉ NO ₃ | 2.000E-02 | 20.000 | 0.153 | 152.520 |
| L-Isoleucine | 73-32-5 | HO ₂ CCH(NH ₂)CH(CH ₃)CH ₂ CH ₃ | 5.000E-02 | 50.000 | 0.381 | 381.185 |
| L-Leucine | 61-90-5 | HO ₂ CCH(NH ₂)CH ₂ CH(CH ₃) ₂ | 5.000E-02 | 50.000 | 0.381 | 381.185 |
| L-Lysine Monohydrochloride | 657-27-2 | C ₆ H ₁₄ N ₂ O ₂ · HCl | 4.000E-02 | 40.000 | 0.219 | 218.998 |
| L-Methionine | 63-68-3 | HO ₂ CCH(NH ₂)CH ₂ CH ₂ SCH ₃ | 1.500E-02 | 15.000 | 0.101 | 100.536 |
| L-Phenylalanine | 63-91-2 | HO ₂ CCH(NH ₂)CH ₂ C ₆ H ₅ | 1.500E-02 | 15.000 | 9.080E-02 | 90.805 |
| L-Proline | 147-85-3 | C ₅ H ₉ NO ₂ | 2.000E-02 | 20.000 | 0.174 | 173.717 |
| L-Serine | 56-45-1 | HO ₂ CCH(NH ₂)CH ₂ OH | 3.000E-02 | 30.000 | 0.285 | 285.470 |
| L-Threonine | 72-19-5 | HO ₂ CCH(NH ₂)CH(OH)CH ₃ | 2.000E-02 | 20.000 | 0.168 | 167.898 |
| L-Tryptophan | 73-22-3 | C ₁₁ H ₁₂ N ₂ O ₂ | 5.000E-03 | 5.000 | 2.448E-02 | 24.482 |
| L-Valine | 72-18-4 | HO ₂ CCH(NH ₂)CH(CH ₃) ₂ | 2.000E-02 | 20.000 | 0.171 | 170.794 |
| D-Biotin (Vitamin H) | 58-85-5 | C ₁₀ H ₁₆ N ₂ O ₃ S | 2.000E-04 | 0.200 | 8.186E-04 | 0.819 |
| D-Calcium Pantothenate (Vitamin B5) | 137-08-6 | C ₁₈ H ₃₂ CaN ₂ O ₁₀ | 2.500E-04 | 0.250 | 5.246E-04 | 0.525 |
| Choline Chloride | 67-48-1 | HOCH ₂ CH ₂ N(CH ₃) ₃ Cl | 3.000E-03 | 3.000 | 0.021 | 21.485 |
| Cyanocobalamin (Vitamin B12) | 68-19-9 | C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P | 5.000E-06 | 5.000E-03 | 3.689E-06 | 3.689E-03 |
| Folic Acid | 59-30-3 | C ₁₉ H ₁₉ N ₇ O ₆ | 1.000E-03 | 1.000 | 2.266E-03 | 2.266 |
| I-Inositol | 87-89-8 | C ₆ H ₁₂ O ₆ | 3.500E-02 | 35.000 | 0.194 | 194.229 |
| Niacinamide (Nicotinamide) | 98-92-0 | C ₆ H ₆ N ₂ O | 1.000E-03 | 1.000 | 8.189E-03 | 8.189 |
| Pyridoxine Monohydrochloride | 58-56-0 | C ₈ H ₁₁ NO ₃ | 1.000E-03 | 1.000 | 4.864E-03 | 4.864 |
| Riboflavin (Vitamin B2) | 83-88-5 | C ₁₇ H ₂₀ N ₄ O ₆ | 2.000E-04 | 0.200 | 5.314E-04 | 0.531 |
| Thiamine Monohydrochloride (Vitamin B1) | 67-03-8 | C ₁₂ H ₁₈ N ₄ OSCl ₂ | 1.000E-03 | 1.000 | 2.965E-03 | 2.965 |
| P-Aminobenzoic Acid, PABA | 150-13-0 | C ₇ H ₇ NO ₂ | 1.000E-03 | 1.000 | 7.294E-03 | 7.294 |
| L-Tyrosine Disodium Salt, Dihydrate | 122666-78-9 | C ₉ H ₉ NO ₃ Na ₂ · 2H ₂ O | 2.883E-02 | 28.831 | 0.110 | 110.381 |