

IMDM w/ HEPES,
w/o L-Glutamine

12-726

Lonza

| Description | CAS # | Chemical Formula | Concentration | | Molarity | |
|--|-------------|--|---------------|-----------|-----------|-----------|
| | | | g/L | mg/L | mM | uM |
| Calcium Chloride Anhydrous | 10043-52-4 | CaCl ₂ | 0.165 | 165.000 | 1.487 | 1.487E+03 |
| Dextrose | 50-99-7 | C ₆ H ₁₂ O ₆ | 4.500 | 4.500E+03 | 24.978 | 2.498E+04 |
| Magnesium Sulfate Anhydrous | 7487-88-9 | MgSO ₄ | 9.767E-02 | 97.670 | 0.811 | 811.415 |
| Potassium Chloride | 7447-40-7 | KCl | 0.330 | 330.000 | 4.427 | 4.427E+03 |
| Sodium Bicarbonate | 144-55-8 | NaHCO ₃ | 3.024 | 3.024E+03 | 35.996 | 3.600E+04 |
| Sodium Chloride | 7647-14-5 | NaCl | 4.505 | 4.505E+03 | 77.088 | 7.709E+04 |
| Sodium Selenite (Platelet Factor Enriched Serum) | 10102-18-8 | Na ₂ SeO ₃ | 1.000E-05 | 1.000E-02 | 5.782E-05 | 5.782E-02 |
| L-Alanine | 56-41-7 | HO ₂ CCH(NH ₂)CH ₃ | 2.500E-02 | 25.000 | 0.281 | 280.615 |
| L-Arginine Monohydrochloride | 1119-34-2 | C ₆ H ₁₄ N ₄ O ₂ • HCl | 8.400E-02 | 84.000 | 0.399 | 398.747 |
| L-Asparagine Monohydrate | 5794-13-8 | NH ₂ COCH ₂ CH(NH ₂)COOH • H ₂ O | 2.840E-02 | 28.400 | 0.189 | 189.169 |
| L-Aspartic Acid | 56-84-8 | HO ₂ CCH(NH ₂)CH ₂ CO ₂ H | 3.000E-02 | 30.000 | 0.225 | 225.394 |
| L-Glutamic Acid | 56-86-0 | C ₅ H ₉ NO ₄ | 7.500E-02 | 75.000 | 0.510 | 509.857 |
| Glycine | 56-40-6 | HO ₂ CCH ₂ NH ₂ | 3.000E-02 | 30.000 | 0.400 | 399.627 |
| L-Histidine Monohydrochloride Monohydrate | 5934-29-2 | C ₆ H ₉ N ₃ O ₂ • HCl • H ₂ O | 4.200E-02 | 42.000 | 0.200 | 200.382 |
| L-Isoleucine | 73-32-5 | HO ₂ CCH(NH ₂)CH(CH ₃)CH ₂ CH ₃ | 0.105 | 105.000 | 0.800 | 800.488 |
| L-Leucine | 61-90-5 | HO ₂ CCH(NH ₂)CH ₂ CH(CH ₃) ₂ | 0.105 | 105.000 | 0.800 | 800.488 |
| L-Lysine Monohydrochloride | 657-27-2 | C ₆ H ₁₄ N ₂ O ₂ • HCl | 0.146 | 146.000 | 0.799 | 799.343 |
| L-Methionine | 63-68-3 | HO ₂ CCH(NH ₂)CH ₂ CH ₂ SCH ₃ | 3.000E-02 | 30.000 | 0.201 | 201.072 |
| L-Phenylalanine | 63-91-2 | HO ₂ CCH(NH ₂)CH ₂ C ₆ H ₅ | 6.600E-02 | 66.000 | 0.400 | 399.540 |
| L-Proline | 147-85-3 | C ₅ H ₉ NO ₂ | 4.000E-02 | 40.000 | 0.347 | 347.433 |
| L-Serine | 56-45-1 | HO ₂ CCH(NH ₂)CH ₂ OH | 4.200E-02 | 42.000 | 0.400 | 399.657 |
| L-Threonine | 72-19-5 | HO ₂ CCH(NH ₂)CH(OH)CH ₃ | 9.500E-02 | 95.000 | 0.798 | 797.515 |
| L-Tryptophan | 73-22-3 | C ₁₁ H ₁₂ N ₂ O ₂ | 1.600E-02 | 16.000 | 7.834E-02 | 78.343 |
| L-Valine | 72-18-4 | HO ₂ CCH(NH ₂)CH(CH ₃) ₂ | 9.400E-02 | 94.000 | 0.803 | 802.733 |
| D-Biotin (Vitamin H) | 58-85-5 | C ₁₀ H ₁₆ N ₂ O ₃ S | 1.300E-05 | 1.300E-02 | 5.321E-05 | 5.321E-02 |
| D-Calcium Pantothenate (Vitamin B5) | 137-08-6 | C ₁₈ H ₃₂ CaN ₂ O ₁₀ | 4.000E-03 | 4.000 | 8.394E-03 | 8.394 |
| Choline Chloride | 67-48-1 | HOCH ₂ CH ₂ N(CH ₃) ₃ Cl | 4.000E-03 | 4.000 | 2.865E-02 | 28.647 |
| Cyanocobalamin (Vitamin B12) | 68-19-9 | C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P | 1.300E-05 | 1.300E-02 | 9.591E-06 | 9.591E-03 |
| Folic Acid | 59-30-3 | C ₁₉ H ₁₉ N ₇ O ₆ | 4.000E-03 | 4.000 | 9.062E-03 | 9.062 |
| I-Inositol | 87-89-8 | C ₆ H ₁₂ O ₆ | 7.200E-03 | 7.200 | 3.996E-02 | 39.956 |
| Niacinamide (Nicotinamide) | 98-92-0 | C ₆ H ₆ N ₂ O | 4.000E-03 | 4.000 | 3.276E-02 | 32.757 |
| Pyridoxine Monohydrochloride | 58-56-0 | C ₈ H ₁₁ NO ₃ | 4.000E-03 | 4.000 | 1.946E-02 | 19.455 |
| Riboflavin (Vitamin B2) | 83-88-5 | C ₁₇ H ₂₀ N ₄ O ₆ | 4.000E-04 | 0.400 | 1.063E-03 | 1.063 |
| Thiamine Monohydrochloride (Vitamin B1) | 67-03-8 | C ₁₂ H ₁₈ N ₄ O ₄ SCl ₂ | 4.000E-03 | 4.000 | 1.186E-02 | 11.859 |
| HEPES Buffer | 7365-45-9 | C ₈ H ₁₈ N ₂ O ₄ S | 5.958 | 5.958E+03 | 25.001 | 2.500E+04 |
| Phenol Red | 34487-61-1 | C ₁₉ H ₁₄ O ₅ S | 1.500E-02 | 15.000 | 3.985E-02 | 39.851 |
| Pyruvic Acid Sodium Salt | 113-24-6 | CH ₃ COCO ₂ Na | 0.110 | 110.000 | 1.000 | 999.636 |
| Potassium Nitrate | 7757-79-1 | KNO ₃ | 7.600E-05 | 7.600E-02 | 7.517E-04 | 0.752 |
| L-Tyrosine Disodium Salt, Dihydrate | 122666-78-9 | C ₉ H ₉ NO ₃ Na ₂ • 2H ₂ O | 0.104 | 104.200 | 0.399 | 398.943 |
| L-Cystine Dihydrochloride | 30925-07-6 | C ₆ H ₁₂ N ₂ O ₄ S ₂ • 2HCl | 9.124E-02 | 91.240 | 0.291 | 291.315 |
| Sodium Phosphate Monobasic, Anhydrous | 7558-80-7 | NaH ₂ PO ₄ | 0.109 | 108.690 | 0.906 | 905.750 |