**Ingredients of DMEM High Glucose**

**Cat.No.MG4905-S**

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| --- | --- | --- | --- |
| **Components** | **Molecular Weight** | **Concentration (mg/L)** | **mM** |
| **Amino Acids** |  |  |  |
| Glycine | 75 | 30 | 0.4 |
| L-Arginine hydrochloride | 211 | 84 | 0.39810428 |
| L-Cystine 2HCl | 313 | 63 | 0.20127796 |
| L-Glutamine | 146 | 584 | 4 |
| L-Histidine hydrochloride-H2O | 210 | 42 | 0.2 |
| L-Isoleucine | 131 | 105 | 0.8015267 |
| L-Leucine | 131 | 105 | 0.8015267 |
| L-Lysine hydrochloride | 183 | 146 | 0.7978142 |
| L-Methionine | 149 | 30 | 0.20134228 |
| L-Phenylalanine | 165 | 66 | 0.4 |
| L-Serine | 105 | 42 | 0.4 |
| L-Threonine | 119 | 95 | 0.79831934 |
| L-Tryptophan | 204 | 16 | 0.078431375 |
| L-Tyrosine disodium salt dihydrate | 261 | 104 | 0.39846742 |
| L-Valine | 117 | 94 | 0.8034188 |
| **Vitamins** |
| Choline chloride | 140 | 4 | 0.028571429 |
| D-Calcium pantothenate | 477 | 4 | 0.008385744 |
| Folic Acid | 441 | 4 | 0.009070295 |
| Niacinamide | 122 | 4 | 0.032786883 |
| Pyridoxine hydrochloride | 206 | 4 | 0.019417476 |
| Riboflavin | 376 | 0.4 | 0.00106383 |
| Thiamine hydrochloride | 337 | 4 | 0.011869436 |
| i-Inositol | 180 | 7.2 | 0.04 |
| **Inorganic Salts** |
| Calcium Chloride (CaCl2) (anhyd.) | 111 | 200 | 1.8018018 |
| Ferric Nitrate (Fe(NO3)3"9H2O) | 404 | 0.1 | 2.48E-04 |
| Magnesium Sulfate (MgSO4) (anhyd.) | 120 | 97.67 | 0.8139166 |
| Potassium Chloride (KCl) | 75 | 400 | 5.3333335 |
| Sodium Bicarbonate (NaHCO3) | 84 | 3700 | 44.04762 |
| Sodium Chloride (NaCl) | 58 | 6400 | 110.344826 |
| Sodium Phosphate monobasic (NaH2PO4-H2O) | 138 | 125 | 0.9057971 |
| **Other Components** |
| D-Glucose (Dextrose) | 180 | 4500 | 25 |
| Phenol Red | 376.4 | 15 | 0.039851222 |
| Sodium Pyruvate | 110 | 110 | 1 |