

培养基配方表 (Media Formulation)

名称: DMEM/F-12 (1:1) 培养基 含酚红和 L-谷氨酰胺, 不含 HEPES

货号: L320KJ

| 组分 (Components) | 分子量 (MW) | 浓度 (mg/L) | 摩尔浓度 (mM) |
|---------------------------------------|----------|-----------|-------------|
| 氨基酸 (Amino Acids) | | | |
| Glycine | 75.07 | 18.75 | 0.25 |
| L-Alanine | 89.09 | 4.45 | 0.05 |
| L-Arginine hydrochloride | 210.66 | 147.5 | 0.7 |
| L-Asparagine monohydrate | 150.13 | 7.5 | 0.05 |
| L-Aspartic acid | 133.1 | 6.65 | 0.05 |
| L-Cysteine hydrochloride monohydrate | 175.63 | 17.56 | 0.1 |
| L-Cystine dihydrochloride | 313.22 | 31.29 | 0.1 |
| L-Glutamic Acid | 147.13 | 7.35 | 0.05 |
| L-Glutamine | 146.14 | 365 | 2.5 |
| L-Histidine monohydrochloride hydrate | 209.63 | 31.48 | 0.15 |
| L-Isoleucine | 131.17 | 54.47 | 0.4152626 |
| L-Leucine | 131.17 | 59.05 | 0.45 |
| L-Lysine hydrochloride | 182.65 | 91.25 | 0.5 |
| L-Methionine | 149.21 | 17.24 | 0.1155419 |
| L-Phenylalanine | 165.19 | 35.48 | 0.214783 |
| L-Proline | 115.13 | 17.25 | 0.15 |
| L-Serine | 105.09 | 26.25 | 0.25 |
| L-Threonine | 119.12 | 53.45 | 0.4487072 |
| L-Tryptophan | 204.23 | 9.02 | 0.0441659 |
| L-Tyrosine disodium salt dihydrate | 261.18 | 55.79 | 0.2136075 |
| L-Valine | 117.15 | 52.85 | 0.451131 |
| 无机盐 (Inorganic Salts) | | | |
| Calcium Chloride | 110.98 | 116.6 | 1.0506398 |
| Copper Sulfate pentahydrate | 249.69 | 0.0013 | 0.0000052 |
| Ferric nitrate nonahydrate | 404 | 0.05 | 0.0001238 |
| Ferrous Sulfate heptahydrate | 278.01 | 0.417 | 0.0015 |
| Magnesium Chloride hexahydrate | 203.3 | 61 | 0.3 |
| Magnesium Sulfate | 120.37 | 48.84 | 0.4057489 |
| Potassium Chloride | 74.55 | 311.8 | 4.1824279 |
| Sodium Bicarbonate | 84.01 | 2438 | 29.0203547 |
| Sodium Chloride | 58.44 | 6995.5 | 119.7039699 |
| Sodium Phosphate dibasic | 141.96 | 71.02 | 0.5 |
| Sodium Phosphate monohydrate | 137.99 | 62.5 | 0.4529314 |
| Zinc Sulfate heptahydrate | 287.56 | 0.432 | 0.0015023 |

| 维生素 (Vitamins) | | | |
|--------------------------------|---------|--------|-----------|
| Biotin | 244.31 | 0.0035 | 0.0000143 |
| Choline chloride | 139.62 | 8.98 | 0.0643174 |
| D-Calcium pantothenate | 238.27 | 2.24 | 0.0094011 |
| Folic Acid | 441.4 | 2.65 | 0.006 |
| i-Inositol | 180.16 | 12.6 | 0.07 |
| Niacinamide | 122.12 | 2.02 | 0.0165411 |
| Pyridoxine hydrochloride | 205.64 | 2.031 | 0.0098765 |
| Riboflavin | 376.36 | 0.219 | 0.0005819 |
| Thiamine hydrochloride | 337.27 | 2.17 | 0.006434 |
| Vitamin B12 | 1355.37 | 0.68 | 0.0005017 |
| 其他组分 (Other Components) | | | |
| D-(+)-Glucose | 180.16 | 3151 | 17.49 |
| Sodium Hypoxanthine | 158.09 | 2.39 | 0.015118 |
| Linoleic Acid | 280.45 | 0.042 | 0.00015 |
| Lipoic Acid | 206.33 | 0.105 | 0.0005089 |
| Phenol Red | 376.4 | 8.1 | 0.0215197 |
| Putrescine dihydrochloride | 161.07 | 0.081 | 0.0005029 |
| Sodium Pyruvate | 110.04 | 55 | 0.5 |
| Thymidine | 242.23 | 0.365 | 0.0015068 |