



Catalog Number: 1033124

Dulbecco's Modification of Eagle's Medium (DMEM), powder, with 4500 mg/L dextrose, L-glutamine, without sodium bicarbonate

Description: Also known as DME, Dulbecco's Modified Eagle's Medium is the most widely used modification of Eagle's Basal Medium (BME). DMEM contains four times greater concentration of amino acids, vitamins and supplementary components. The original formulation calls for 1000 mg/L of glucose, which was first employed to support the polyoma virus in primary and secondary embryonic mouse cultures. For optimal culturing of other cell types, a modification of 4500 mg/L glucose is available from MP. Storage Temperature 2-8°C.

Formulation:

| Components | mg/l | Mol. Wt. | Mol. (mM) |
|----------------------------------|-------------|-----------------|------------------|
| Amino Acids | | | |
| L-Arginine HCl | 84.00 | 210.7 | 0.40 |
| L-Cystine 2HCl | 62.57 | 313.2 | 0.20 |
| L-Glutamine | 584.00 | 146.1 | 4.00 |
| Glycine | 30.00 | 75.07 | 0.40 |
| L-Histidine HCl H ₂ O | 42.00 | 209.6 | 0.20 |
| L-Isoleucine | 104.80 | 131.2 | 0.80 |
| L-Leucine | 104.80 | 131.2 | 0.80 |
| L-Lysine HCl | 146.20 | 182.6 | 0.80 |
| L-Methionine | 30.00 | 149.2 | 0.20 |
| L-Phenylalanine | 66.00 | 165.2 | 0.40 |
| L-Serine | 42.00 | 105.1 | 0.40 |
| L-Threonine | 95.20 | 119.1 | 0.80 |
| L-Tryptophan | 16.00 | 204.2 | 0.08 |
| L-Tyrosine 2Na 2H ₂ O | 103.79 | 261.2 | 0.40 |
| L-Valine | 94.00 | 117.1 | 0.80 |

| Vitamins | | | |
|--|---------|--------|--------|
| Choline Chloride | 4.00 | 139.6 | 0.03 |
| D-Calcium Pantothenate | 4.00 | 238.3 | 0.02 |
| Folic Acid | 4.00 | 441.4 | 0.01 |
| myo-Inositol | 7.20 | 180.2 | 0.04 |
| Nicotinamide | 4.00 | 122.13 | 0.03 |
| Pyridoxine HCl | 4.00 | 205.6 | 0.02 |
| Riboflavin | 0.40 | 376.4 | 0.0011 |
| Thiamine HCl | 4.00 | 337.3 | 0.01 |
| Inorganic Salts | | | |
| Calcium Chloride [CaCl ₂] | 200.00 | 111 | 1.80 |
| Ferric Nitrate [Fe(NO ₃) ₃ 9H ₂ O] Nonahydrate | 0.10 | 404 | 0.0002 |
| Magnesium Sulfate [MgSO ₄] | 97.70 | 120.4 | 0.81 |
| Potassium Chloride [KCl] | 400.00 | 74.55 | 5.37 |
| Sodium Chloride [NaCl] | 6400.00 | 58.44 | 109.51 |
| Sodium Phosphate Monobasic [NaH ₂ PO ₄ H ₂ O] Monohydrate | 125.00 | 137.99 | 0.905 |
| Other | | | |
| Dextrose | 4500.00 | 180.2 | 24.97 |
| Phenol Red Sodium Salt | 15.00 | 376.4 | 0.04 |
| Sodium Pyruvate | 110.00 | 110 | 1.00 |
| Add | | | |
| NaHCO ₃ Powder (g/L) | | 3.700 | |
| NaHCO ₃ 7.5% Solution (mL/L) | | 49.440 | |

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試薬事業部

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