

Formulations

Medium 199 (E-199) without L-Glutamine and Phenol Red

Cat.# 112-254

| COMPONENTS | mg/L |
|--|---------|
| Inorganic Salts | |
| Calcium Chloride ($\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$) | 200.00 |
| Iron(III) Nitrate Nonahydrate ($\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$) | 0.72 |
| Magnesium Sulfate (MgSO_4 (anhydrous)) | 96.70 |
| Potassium Chloride (KCl) | 400.00 |
| Sodium Acetate (anhydrous) | 50.00 |
| Sodium Chloride (NaCl) | 6800.00 |
| Sodium Bicarbonate (NaHCO_3) | 2200.00 |
| Sodium Phosphate monobasic (NaH_2PO_4 (anhydrous)) | 122.00 |
| Other Components | |
| Adenine Sulfate | 10.00 |
| Adenosine Triphosphate • 2Na | 1.00 |
| Adenosine Monophosphate • Na | 0.2385 |
| Cholesterol | 0.20 |
| Deoxyribose | 0.50 |
| Glucose | 1000.00 |
| Glutathione (reduced) | 0.05 |
| Guanine • HCl | 0.30 |
| Hypoxanthine | 0.30 |
| TWEEN 80 | 20.00 |
| Ribose | 0.50 |
| Thymine | 0.30 |
| Uracil | 0.30 |
| Xanthine • Na | 0.344 |
| Amino Acids | |
| L-Alanine | 25.00 |
| L-Arginine • HCl | 70.00 |
| L-Aspartic acid | 30.00 |
| L-Cystine • 2HCl | 0.11 |
| L-Cysteine • HCl • H ₂ O | 26.00 |
| L-Glutamic acid | 66.80 |
| Glycine | 50.00 |
| L-Histidine • HCl • H ₂ O | 21.88 |
| Hydroxy-L-proline | 10.00 |
| L-Isoleucine | 20.00 |
| L-Leucine | 60.00 |

Formulations

Medium 199 (E-199) without L-Glutamine and Phenol Red

Cat.# 112-254

| COMPONENTS | mg/L |
|--------------------------------------|-------------|
| L-Lysine-HCl | 70.00 |
| L-Methionine | 15.00 |
| L-Phenylalanine | 25.00 |
| L-Proline | 40.00 |
| L-Serine | 25.00 |
| L-Threonine | 30.00 |
| L-Tryptophan | 10.00 |
| L-Tyrosine • 2Na • 2H ₂ O | 57.66 |
| L-Valine | 25.00 |
| Vitamins | |
| Ascorbic Acid • Na | 0.057 |
| d-Biotin | 0.01 |
| D-Ca pantothenate | 0.01 |
| Calciferol | 0.10 |
| Choline chloride | 0.50 |
| Folic acid | 0.01 |
| Menadione (sodium bisulfite) | 0.016 |
| myo-Inositol | 0.05 |
| Nicotinamide (Niacinamide) | 0.025 |
| Nicotinic Acid | 0.025 |
| p-Amino Benzoic Acid | 0.05 |