

Media Production Formulations

**MEM PAK
(modified MEM EBSS w/o L-Glutamine)**

CCF Product Code Number: CCFAC009 (Old Code AE900)

| Compound | Formula | mg/L |
|-------------------------------------|--|-------------|
| Part A: Inorganic Salts | | |
| Calcium chloride (anhydrous) | CaCl ₂ | 200.00 |
| Magnesium sulfate, heptahydrate | MgSO ₄ ·7 H ₂ O | 200.00 |
| Potassium chloride | KCl | 400.00 |
| Sodium chloride | NaCl | 6800.00 |
| Sodium phosphate, ·H ₂ O | NaH ₂ PO ₄ ·H ₂ O | 140.00 |
| Part B: Other components | | |
| D-Glucose | C ₆ H ₁₂ O ₆ | 1350.00 |
| Phenol Red Na | C ₁₉ H ₁₂ O ₅ S·Na ₂ | 20.00 |
| Sodium bicarbonate | NaHCO ₃ | 2200.00 |

Media Production Formulations

**MEM PAK
(modified MEM EBSS w/o L-Glutamine)**

CCF Product Code Number: CCFAC009 (Old Code AE900)

| Compound | Formula | mg/L |
|--|---------------------------------|-------------|
| Part C: Amino Acids | | |
| L-Arginine hydrochloride | $C_6H_{14}N_4O_2 \text{ HCl}$ | 252.00 |
| L-Cystine | $C_6H_{12}N_2O_4S_2$ | 48.00 |
| L-Histidine hydrochloride H ₂ O | $C_6H_9N_3O_2 \text{ HCl H}_2O$ | 84.00 |
| L-Isoleucine | $C_6H_{13}NO_2$ | 104.00 |
| L-Leucine | $C_6H_{13}NO_2$ | 104.00 |
| L-Lysine HCl | $C_6H_{14}N_2O_2 \cdot HCl$ | 145.00 |
| L-Methionine | $C_5H_{11}NO_2S$ | 30.00 |
| L-Phenylalanine | $C_9H_{11}NO_2$ | 64.00 |
| L-Threonine | $C_4H_9NO_3$ | 96.00 |
| L-Tryptophan | $C_{11}H_{12}N_2O_2$ | 20.00 |
| L-Tyrosine | $C_9H_{11}NO_3$ | 72.00 |
| L-Valine | $C_5H_{11}NO_2$ | 92.00 |

Media Production Formulations

**MEM PAK
(modified MEM EBSS w/o L-Glutamine)**

CCF Product Code Number: CCFAC009 (Old Code AE900)

| Compound | Formula | mg/L |
|--------------------------|---------------------------------|-------------|
| Part D: Vitamins | | |
| D-Calcium pantothenate | $C_{18}H_{32}CaN_2O_{10}$ | 4.00 |
| Choline chloride | $C_5H_{14}ClNO$ | 4.00 |
| i-Inositol | $C_6H_{12}O_6$ | 8.00 |
| Nicotinamide | $C_6H_6N_2O$ | 4.00 |
| Pyridoxine hydrochloride | $C_8H_9NO_3 \cdot HCl$ | 4.00 |
| Thiamine hydrochloride | $C_{12}H_{17}ClN_4OS \cdot HCl$ | 4.00 |
| Folic acid | $C_{19}H_{19}N_7O_6$ | 4.00 |
| Riboflavin | $C_{17}H_{20}N_4O_6$ | 0.40 |

pH: 7.2 Osmolarity: 295-306 mOsm