

# MEM Alpha Modification, w/o L-Glutamine, w/o Nucleosides

## General information

MEM is a commonly utilized cell culture medium that can support the growth of various cell types, whether they are adherent or suspension.

## Product specifications

|                                   |                                                     |
|-----------------------------------|-----------------------------------------------------|
| <b>CO2 concentration, optimum</b> | 5.0%                                                |
| <b>pH</b>                         | 7.0 – 7.5                                           |
| <b>Osmolality</b>                 | 260 – 340 mOsm/kg                                   |
| <b>Colour and Appearance</b>      | Clear red orange solution                           |
| <b>Endotoxin</b>                  | <1 EU/ml (<0.1 ng/ml)                               |
| <b>Cell Culture</b>               | Tested                                              |
| <b>Sterility</b>                  | Tested                                              |
| <b>Storage</b>                    | +2 °C to +8 °C protected from light, do not freeze! |

## Formulation

### Amino Acids

|                                      |        |
|--------------------------------------|--------|
| L-Alanine                            | 25.00  |
| L-Arginine · HCl                     | 126.00 |
| L-Asparagine · H <sub>2</sub> O      | 50.00  |
| L-Aspartic Acid                      | 30.00  |
| L-Cysteine · HCl · H <sub>2</sub> O  | 100.00 |
| L-Cystine · 2HCl                     | 31.30  |
| L-Glutamic Acid                      | 75.00  |
| Glycine                              | 50.00  |
| L-Histidine · HCl · H <sub>2</sub> O | 42.00  |
| L-Isoleucine                         | 52.00  |
| L-Leucine                            | 52.00  |
| L-Lysine · HCl                       | 72.50  |
| L-Methionine                         | 15.00  |
| L-Phenylalanine                      | 32.00  |
| L-Proline                            | 40.00  |
| L-Serine                             | 25.00  |
| L-Threonine                          | 48.00  |
| L-Tryptophan                         | 10.00  |
| L-Tyrosine · 2 Na · H <sub>2</sub> O | 51.90  |
| L-Valine                             | 46.00  |

## Vitamins

|                        |       |
|------------------------|-------|
| Ascorbic Acid · Na     | 50.00 |
| D-Biotin               | 0.10  |
| Choline chloride       | 1.00  |
| D-Calcium Pantothenate | 1.00  |
| Folic Acid             | 1.00  |
| myo-Inositol           | 2.00  |
| Nicotinamide           | 1.00  |
| Pyridoxal HCl          | 1.00  |
| Riboflavin             | 0.10  |
| Thiamine HCl           | 1.00  |
| Vitamin B12            | 1.36  |

## Inorganic Salts

|                                              |         |
|----------------------------------------------|---------|
| CaCl <sub>2</sub> · 2 H <sub>2</sub> O       | 200.00  |
| MgSO <sub>4</sub> (anhydrous)                | 97.67   |
| KCl                                          | 400.00  |
| NaHCO <sub>3</sub>                           | 2200.00 |
| NaCl                                         | 6800.00 |
| Na <sub>2</sub> HPO <sub>4</sub> (anhydrous) | 122.00  |

## Other Components

|                 |         |
|-----------------|---------|
| D-Glucose       | 1000.00 |
| Lipoic Acid     | 0.20    |
| Phenol Red · Na | 11.00   |
| Sodium Pyruvate | 110.00  |

## Precautions and disclaimer

This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

## Ordering information

| Catalogue number | Pack size |
|------------------|-----------|
| LTLM-B20         | 500 ml    |

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