

## Minimum Essential Media w/ Earle's Salts w/ L-Glutamine

**CAT N°** : L0415

**Theoretical pH** :  $7.3 \pm 0.3$

**Osmolality** : 302 mOsm/kg  $\pm 10\%$

**Colour** : Red, orange solution

**Storage conditions** : +2°C to +8°C

**Shelf life** : 12 months

**Sterility tests** : method based on the European Pharmacopoeia

- bacteria aerobic-anaerobic
- bacteria strictly anaerobic
- fungi / yeast

**Endotoxin** : < 1 EU/ml

**Cell growth test :**

Medium tested for the ability to support L929 cell growth.

**Composition** : Displayed on the website and in the catalog; also available on request.

**Recommended use :**

- Respect storage conditions of the product
- Do not use the product after its expiry date
- Store product in an area protected from light (not necessary for saline solutions).
- Manipulate the product in aseptic conditions (e.g. : under laminar air flow)
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g. : gloves, mask, hygiene cap, overall...)

The product is intended to be used in vitro, in laboratory only. Do not use it in therapy, human or veterinary applications.

**Description :**

Minimum Essential Medium (MEM) with Earle's Balanced Salts is a modification of Eagle's earlier medium Basal Medium Eagle (BME), containing higher concentrations of the essential nutrients. These media have demonstrated the ability to support a variety of normal and transformed cells in culture and contain Earle's Balanced Salts, which make them suitable for use in atmospheres charged with CO<sub>2</sub> gas.

**Uses :**

Supplements, such as antibiotics, should be added as sterile supplements to the medium.

Storage conditions and shelf-life of supplemented product will be affected by the nature of the supplements. Sterile serum should not be re-filtered before or after being added to sterile medium because growth promoting capacity may be reduced upon re-filtration.

**Signs of Deterioration :**

Medium should be clear and free of particulate and flocculent material. Do not use if medium is cloudy or contains precipitate.

Other evidence of deterioration may include colour change or degradation of physical or performance characteristics.

**Product code : L0415**

**Product name : MEM w/ Earle's Salts w/ L-Glutamine**

| CAS Number | Components                                | Quantity in g/l |
|------------|---|-----------------|
| 10035-04-8 | Calcium Chloride Dihydrate                | 0.26500000      |
| 7487-88-9  | Magnesium Sulfate Anhydrous               | 0.09767000      |
| 7447-40-7  | Potassium Chloride                        | 0.40000000      |
| 7647-14-5  | Sodium Chloride                           | 6.80000000      |
| 7558-80-7  | Sodium Phosphate Monobasic Anhydrous      | 0.12200000      |
| 50-99-7    | D-Glucose Anhydrous                       | 1.00000000      |
| 1119-34-2  | L-Arginine Monohydrochloride              | 0.12600000      |
| 30925-07-6 | L-Cystine Dihydrochloride                 | 0.03130000      |
| 56-85-9    | L-Glutamine                               | 0.29200000      |
| 5934-29-2  | L-Histidine Monohydrochloride Monohydrate | 0.04200000      |
| 73-32-5    | L-Isoleucine                              | 0.05200000      |
| 61-90-5    | L-Leucine                                 | 0.05200000      |
| 657-27-2   | L-Lysine Monohydrochloride                | 0.07250000      |
| 63-68-3    | L-Methionine                              | 0.01500000      |
| 63-91-2    | L-Phenylalanine                           | 0.03200000      |
| 72-19-5    | L-Threonine                               | 0.04800000      |
| 73-22-3    | L-Tryptophan                              | 0.01000000      |
| 69847-45-6 | L-Tyrosine Disodium Salt Dihydrate        | 0.05190000      |
| 72-18-4    | L-Valine                                  | 0.04600000      |
| 67-48-1    | Choline Chloride                          | 0.00100000      |
| 137-08-6   | D-Ca Pantothenate                         | 0.00100000      |
| 59-30-3    | Folic Acid                                | 0.00100000      |
| 87-89-8    | Myo-Inositol                              | 0.00200000      |
| 98-92-0    | Nicotinamide (Nicotinic acid amide)       | 0.00100000      |
| 65-22-5    | Pyridoxal Hydrochloride                   | 0.00100000      |
| 83-88-5    | Riboflavin                                | 0.00010000      |
| 67-03-8    | Thiamine Hydrochloride                    | 0.00100000      |
| 34487-61-1 | Phenol Red Sodium Salt                    | 0.01100000      |
| 144-55-8   | Sodium Bicarbonate                        | 2.20000000      |
| WATER      |   | 988.22553000    |