



Product Specification

cdhfinechemical.com

Technical Information

Minimum Essential Medium Eagle (MEM)

(For Suspension Culture) With Spinner's salts and Sodium bicarbonate Without L-Glutamine 1X Liquid Cell **Culture Medium**

Product Code: AL1019

Application:-Minimum Essential Medium (MEM) is a modification of Basal Medium Eagle (BME). It was developed by Harry Eagle to meet the specific nutritional requirements of certain subtypes of HeLa cells and normal mammalian fibroblasts. MEM includes higher concentration of amino acids so as to closely approximate the protein composition of cultured mammalian cells. MEM can be used either with Earle's salts or Hank's salts and can also be additionally supplemented with Non-essential amino acids (NEAA). This medium can be further modified by eliminating calcium to facilitate growth of cells in suspension cultures.

AL1019 is Minimum Essential Medium with Spinner's balanced salts for suspension culture. It does not contain L-glutamine. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

| Composition** | |
|-------------------------------------|----------------|
| Ingredients | mg/Litre |
| INORGANIC SALTS | |
| Magnesium sulphate anhydrous | 97.720 |
| Potassium chloride | 400.000 |
| Sodium bicarbonate | 2200.000 |
| Sodium chloride | 6800.000 |
| Sodium dihydrogen phosphate anhyd | drous 1220.000 |
| AMINO ACIDS | |
| L-Arginine hydrochloride | 126.000 |
| L-Cystine dihydrochloride | 31.300 |
| L-Histidine hydrochloride monohydra | ate 42.000 |
| L-Isoleucine | 52.000 |
| L-Leucine | 52.000 |
| L-Lysine hydrochloride | 72.500 |
| L-Methionine | 15.000 |
| L-Phenylalanine | 32.000 |
| L-Threonine | 48.000 |
| L-Tryptophan | 10.000 |
| L-Tyrosine disodium salt | 52.000 |
| L-Valine | 46.000 |
| VITAMINS | |
| Choline chloride | 1.000 |
| D-Ca-Pantothenate | 1.000 |
| Folic acid | 1.000 |
| Nicotinamide | 1.000 |
| Pyridoxal hydrochloride | 1.000 |
| Riboflavin | 0.100 |
| Thiamine hydrochloride | 1.000 |
| i-Inositol | 2.000 |
| | |





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OTHERS

D-Glucose 1000.000 Phenol red sodium salt 11.000

Methodology

1. Add 10ml of 200mM L-glutamine (TCL1012) for 1 litre of medium.

Material required but not provided

L-Glutamine solution 200mM (TCL1012)

Quality control

Appearance

Orangish red colored, clear solution.

рΗ

7.00 -7.60

Osmolality in mOsm/Kg H₂O

280.00 -320.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Cultural Response

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts and comparing it with a control medium through minimum three subcultures.

Endotoxin Content

NMT 5EU/ml

Storage and Shelf Life

Store at 2-8°C away from bright light. Shelf life is 18 months. Use before expiry date given on the product label.

Disclaimer:

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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