



Product Specification

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Technical Information

Minimum Essential Medium Eagle (MEM)

With Earle's salts, NEAA and Sodium bicarbonate Without L-Glutamine 1X Liquid Cell Culture Medium

Product Code: AL1047

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.

AL1047 is Minimum Essential Medium Eagle with Earle's salts, sodium bicarbonate and non-essential amino acids. 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.

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D.C. D. + 4	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	
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.

На

7.00 -7.60

Osmolality in mOsm/Kg H₂O

290.00 -330.00

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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