



# **Product Specification**

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## **Technical Information**

## Minimum Essential Medium Eagle (MEM)

(Joklik modification) (For Suspension Culture) With Sodium bicarbonate Without L-Glutamine 1X Liquid cell

**Culture Medium** 

## Product Code: AL1079

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.

AL1079 is Joklik modification of Minimum Essential Medium with sodium bicarbonate. It does not contain calcium chloride and L-glutamine. This medium is designed for use with suspension cells, hence does not contain calcium. 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	<u> </u>
Magnesium chloride	93.680
Potassium chloride	400.000
Sodium bicarbonate	2000.000
Sodium chloride	6500.000
Sodium dihydrogen phosphate	1154.000
AMINO ACIDS	
L-Arginine hydrochloride	126.000
L-Cystinedihydrochloride	32.400
L-Glutamine	292.000
L-Histidine hydrochloride monohydrate	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	54.500
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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# Animal Cell Culture



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OTHERS

2000.000 11.000

### Methodology

Phenol red sodium salt

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.

рН

7.00 -7.60

#### Osmolality in mOsm/Kg H<sub>2</sub>O

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

andquantitatively 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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