



Product Specification

Technical Information

Minimum Essential Medium Eagle (MEM) (10X)

With Earle's salts Without L-Glutamine, NEAA and Sodium bicarbonate

Product Code: AL1191

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.

AL1191 is 10X Minimum Essential Medium Eagle with Earle's salts. It does not contain non-essential amino acids, Lglutamine and sodium bicarbonate. 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	977.200
Potassium chloride	4000.000
Sodium chloride	68000.000
Sodium dihydrogen phosphate anhydrous	1220.000
AMINO ACIDS	
L-Arginine hydrochloride	1260.000
L-Cystine dihydrochloride	313.000
L-Histidine hydrochloride monohydrate	420.000
L-Isoleucine	52.000
L-Leucine	52.000
L-Lysine hydrochloride	725.000
L-Methionine	150.000
L-Phenylalanine	320.000
L-Threonine	480.000
L-Tryptophan	100.000
L-Tyrosine disodium salt	519.000
L-Valine	460.000
VITAMINS	
Choline chloride	10.000
D-Ca-Pantothenate	10.000
Folic acid	10.000
Nicotinamide	10.000
Pyridoxal hydrochloride	10.000
Riboflavin	1.000
Thiamine hydrochloride	10.000
i-Inositol	20.000





Product Specification

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OTHERS

D-Glucose 10000.000
Phenol red sodium salt 110.000

Methodology

1. Add 29.3ml of 7.5% sodium bicarbonate solution (TCL1013) and 10ml of 200mM L-glutamine (TCL1012) for 1 litre of 1X medium prior to use.

Material required but not provided

L-Glutamine solution 200mM (TCL1012)

Sodium bicarbonate solution 7.5% (TCL1013)

Tissue culture grade water (TCL1010)

Quality control

Appearance

Yellow to orange colored, clear solution.

рΗ

4.70 -5.30

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.

Endotoxin Content

NMT 1EU/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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