

Eagle's Minimum Essential Medium (MEM) with Hanks' Salts

without L-Glutamine and Phenol Red

Catalog Number:

M38650

Size:

500 mL

PRODUCT DESCRIPTION

Eagle's Minimum Essential Medium (MEM) is one of the most commonly used cell culture media. MEM is suitable for a broad spectrum of mammalian cells in culture. In comparison with BME, it contains higher concentrations of amino acids and other essential nutrients. A variety of MEM versions are available with Earle's salts for use in a CO₂ incubator, with Hanks' salts for use without CO₂, with or without non-essential amino acids, or as Alpha modification with or without nucleosides. MEM derivatives require supplementation with serum, typically 10% Fetal Bovine Serum (FBS), since this medium does not contain proteins, lipids, or growth factors.

Each lot of MEM (Hanks' Salts) is prepared from a powdered base medium and tissue culture-grade water. Representative samples of each lot of MEM (Hanks' Salts) are tested to confirm the absence of bacterial or fungal contamination using methods adapted from the current U.S. Pharmacopeia. MEM (Hanks' Salts) is manufactured in our ISO 9001:2015 certified facility.

For the specific media formulation, please refer to the Media Formulation section of the datasheet.

STORAGE AND HANDLING

MEM (Hanks' Salts) is supplied in gamma-irradiated, sterile PETG or PETE bottles. We recommend that MEM (Hanks' Salts) be stored at a temperature of 2-8 °C, and protected from strong light. Always use aseptic techniques when handling and supplementing MEM (Hanks' Salts).

PRECAUTION

When handling bio-hazardous materials such as human cells, safe laboratory procedures should be followed, and personal protective equipment should be worn.

LIMITATIONS

- FOR LABORATORY RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
- The safety and efficacy of this product in diagnostic or other clinical uses has not been established.
- Results may vary due to variations among tissue/cells derived from different donors or sources.

MEDIA FORMULATION

INORGANIC SALTS

mg/L

Calcium Chloride • 2H ₂ O	185.45
Magnesium Sulfate (Anhydr.)	97.67
Potassium Chloride	400.00
Potassium Phosphate, Monobasic (Anhydr.)	60.00
Sodium Chloride	8000.00
Sodium Phosphate, Dibasic (Anhydr.)	47.69

AMINO ACIDS

mg/L

L-Arginine • HCl	126.98
L-Cystine • 2HCl	31.29
L-Histidine • HCl • H ₂ O	42.00
L-Isoleucine	52.00
L-Leucine	52.00
L-Lysine • HCl	72.46
L-Methionine	15.00
L-Phenylalanine	32.00
L-Threonine	48.00
L-Tryptophan	10.00
L-Tyrosine • Na ₂ • 2H ₂ O	51.90
L-Valine	46.00

VITAMINS

mg/L

Choline Chloride	1.00
Folic Acid	1.00
myo-Inositol	2.00
Nicotinamide	1.00
D-Pantothenic Acid, Hemicalcium Salt	1.00
Pyridoxal • HCl	1.00
Riboflavin	0.10
Thiamine • HCl	1.00

OTHER COMPONENTS

mg/L

D-Glucose	1000.00
Sodium Bicarbonate	350.00