Eagle's Minimum Essential Medium (MEM), Alpha Modification

without Ribonucleosides and Deoxyribonucleosides and L-Glutamine

Catalog Number:	Size:
M34450	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 CO_2 incubator, with Hanks' salts for use without CO_2, with or without non-essential amino acids, or as Alpha modification with or without nucleosides.

Each lot of MEM Alpha is prepared from a powdered base medium and tissue culture-grade water. Representative samples of each lot of MEM Alpha are tested to confirm the absence of bacterial or fungal contamination using methods adapted from the current U.S. Pharmacopeia. MEM Alpha 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 Alpha is supplied in gamma-irradiated, sterile PETG or PETE bottles. We recommend that MEM Alpha be stored at a temperature of 2-8 °C, and protected from strong light. Always use aseptic techniques when handling and supplementing MEM Alpha.

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.

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MEDIA FORMULATION

INORGANIC SALTS	mg/L
Calcium Chloride • $2H_2O$	264.92
Magnesium Sulfate (Anhydr.)	97.67
Potassium Chloride	400.00
Sodium Chloride	6800.00
Sodium Phosphate, Monobasic (Anhydr.)	121.74

AMINO ACIDS	mg/L
L-Alanine	25.00
L-Arginine • HCl	126.98
L-Asparagine • H_2O	50.00
L-Aspartic Acid	30.00
L-Cysteine • HCl • H_2O	100.00
L-Cystine • 2HCl	31.29
L-Glutamic Acid	75.00
Glycine	50.00
L-Histidine • HCl • H_2O	42.00
L-Isoleucine	52.00
L-Leucine	52.00
L-Lysine • HCl	72.46
L-Methionine	15.00
L-Phenylalanine	32.00
L-Proline	40.00
L-Serine	25.00
L-Threonine	48.00
L-Tryptophan	10.00
L-Tyrosine • Na_2 • $2H_2O$	51.90
L-Valine	46.00

VITAMINS	mg/L
L-Ascorbic Acid	50.00
D-Biotin	0.10
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
Vitamin B12	1.36

OTHER COMPONENTS	mg/L
D-Glucose	1000.00
Lipoic Acid	0.20
Phenol Red • Na	10.20
Sodium Pyruvate	110.00
Sodium Bicarbonate	2200.00