Alpha MEM without Nucleosides

Minimum Essential Medium Eagle - Alpha Modification (Alpha MEM) without Nucleosides

Catalog # 36453 500 mL

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Product Description

Minimum Essential Medium Eagle - Alpha Modification (Alpha MEM) is recommended for a wide variety of cell culture applications. Selection of a suitable nutrient medium is dependent on the type of cell, culture conditions, and degree of chemical definition required for the cell culture application. MEM has typically been used for the cultivation of cells grown in monolayers, however additional supplementation to MEM (Alpha Modification) has expanded the applications for this medium.

Minimum Essential Medium Eagle - Alpha Modification (Alpha MEM) contains L-glutamine and is supplemented with sodium bicarbonate.

See Formulation on page 2 for a full list of components.

Properties

Storage:	Store at 2 - 8°C.
Shelf Life:	Stable for 12 months from date of manufacture (MFG) on label.
Contains:	Alpha MEM without nucleosides

Materials Required But Not Included

- L-Glutamine (Catalog #07100)

Handling / Directions For Use

This product contains the labile amino acid L-glutamine, which has a half-life of approximately 1 month when stored at 2 - 8°C. For certain cell culture applications, medium stored for greater than 2 months following date of manufacture should be supplemented with additional L-glutamine. Add 5 mL of 200 mM L-Glutamine (Catalog #07100) to 500 mL of Alpha MEM to achieve a final concentration of 2 mM.

NOTE: The product does not contain antibiotics. If desired, add antibiotics and use within 1 week.

Formulation

INORGANIC SALTS	g/L
Calcium Chloride•2H_2O	0.2
Magnesium Sulfate (anhydrous)	0.09767
Potassium Chloride	0.4
Sodium Chloride	6.8
Sodium Phosphate Dibasic	0.14
AMINO ACIDS	**g/L**
L-Alanine	0.025
L-Arginine	0.105
L-Asparagine•H_2O	0.05
L-Aspartic Acid	0.03
L-Cysteine HCl•H_2O	0.1
L-Cystine•2HCl	0.024
L-Glutamic Acid	0.075
L-Glutamine	0.292
Glycine	0.05
L-Histidine	0.031
L-Isoleucine	0.0524
L-Leucine	0.0524
L-Lysine	0.058
L-Methionine	0.015
L-Phenylalanine	0.032
L-Proline	0.04
L-Serine	0.025
L-Threonine	0.048
L-Tryptophan	0.01
L-Tyrosine•2Na•2H_2O	0.052
L-Valine	0.046
VITAMINS	**g/L**
Ascorbic Acid	0.05
Biotin	0.0001
Choline Chloride	0.001
Folic Acid	0.001
myo-Inositol	0.002
Niacinamide	0.001
D-Calcium Pantothenate	0.001
Pyridoxal•HCl	0.001
Riboflavin	0.0001
Thiamine•HCl	0.001
Vitamin B12	0.00136
OTHER	**g/L**
D-Glucose	1.0
Phenol Red	0.01
Sodium Bicarbonate	2.2
Sodium Pyruvate	0.11
Thioctic Acid	0.0002