

Alpha MEM without Nucleosides



Minimum Essential Medium Eagle - alpha modification (Alpha MEM) without nucleosides

Catalog # 36453 500 mL

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TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

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Product Description

Minimum Essential Medium Eagle - Alpha Modification (Alpha MEM) without Nucleosides is recommended for a wide variety of cell culture applications. Selection of a suitable nutrient medium is dependent on type of cell, conditions of culture, and degree of chemical definition. MEM has typically been used for the cultivation of cells grown in monolayers; however, additional supplementation to Alpha MEM has expanded the applications for this medium.

Alpha MEM without Nucleosides 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.

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 without Nucleosides to achieve a final concentration of 2 mM.

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

Formulation

INORGANIC SALTS	g/L
Calcium Chloride•2H ₂ O	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 ₂ O	0.05
L-Aspartic Acid	0.03
L-Cysteine HCl•H ₂ O	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 ₂ O	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

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