

MINIMUM ESSENTIAL MEDIUM EAGLE (MEM)

Alpha Modification Without Nucleosides

Catalog # 36453

500 mL per bottle

Selection of suitable nutrient medium is dependent on type of cell, conditions of culture, and degree of chemical definition required for the cell culture application.

PRODUCT DESCRIPTION:

This product contains L-glutamine and is supplemented with Sodium Bicarbonate.

This product **does not** contain Antibiotics.

pH 7.2 - 7.6

Formulation is listed on reverse side.

STABILITY / STORAGE:

Store at 2 - 8°C.

Stable for one year from date of manufacture (refer to: Directions for use).

Contents guaranteed sterile if seal is not tampered with.

DIRECTIONS FOR USE:

This product contains the labile amino acid L-glutamine which has a half-life of approximately one month when stored at 2 - 8°C. For certain cell culture applications, medium stored for greater than two months following date of manufacture should be supplemented with additional L-glutamine. Add 5 mL of 200mM

L-glutamine (Cat# 07100) to 500 mL to achieve a final concentration of 2 mM.

If desired, add 5 mL of Penicillin and Streptomycin Solution (Cat# 07500) to 500 mL bottle to achieve a final concentration of 100 U/mL Penicillin and 100 µg/mL of Streptomycin. Following addition of antibiotics, medium should be used within one week.

**THIS REAGENT IS FOR LABORATORY USE ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**

MINIMUM ESSENTIAL MEDIUM EAGLE

COMPONENT	36453 g/L
INORGANIC SALTS	
Calcium Chloride•2H ₂ O	0.265
Magnesium Sulfate (anhydrous)	0.09767
Potassium Chloride	0.4
Sodium Chloride	6.8
Sodium Phosphate Monobasic (anhydrous)	0.122
AMINO ACIDS	
L-Alanine	0.025
L-Arginine•HCl	0.126
L-Asparagine•H ₂ O	0.05
L-Aspartic Acid	0.03
L-Cysteine•HCl•H ₂ O	0.1
L-Cystine•2HCl	0.0313
L-Glutamic Acid	0.075
L-Glutamine	0.292
Glycine	0.05
L-Histidine•HCl•H ₂ O	0.042
L-Isoleucine	0.052
L-Leucine	0.052
L-Lysine•HCl	0.0725
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	0.0519
L-Valine	0.046
VITAMINS	
L-Ascorbic Acid •Na	0.05
Biotin	0.0001
Choline Chloride	0.001
Folic Acid	0.001
myo-Inositol	0.002
Niacinamide	0.001
D-Pantothenic Acid (hemicalcium)	0.001
Pyridoxine•HCl	0.001
Riboflavin	0.0001
Thiamine•HCl	0.001
Vitamin B-12	0.00136
OTHER	
D-Glucose	1.0
Phenol Red•Na	0.011
Pyruvic Acid•Na	0.11
Sodium Bicarbonate	2.2
Thioctic Acid	0.0002