

MEM with Earle's & NEAA



Minimum Essential Medium Eagle (MEM) with Earle's salts and non-essential amino acids (NEAA)

Catalog # 36550 500 mL

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Product Description

Minimum Essential Medium Eagle with Earle's salts and non-essential amino acids (NEAA) 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.

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:**
- Earle's salts
 - Non-essential amino acids
 - L-Glutamine
 - Sodium bicarbonate
 - pH 7.2 - 7.6

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 MEM with Earle's & NEAA 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	0.265
Magnesium Sulfate (anhydrous)	0.09767
Potassium Chloride	0.4
Sodium Chloride	6.8
Sodium Phosphate Monobasic (anhydrous)	0.122
AMINO ACIDS	g/L
L-Alanine	0.0089
L-Arginine•HCl	0.126
L-Asparagine•H ₂ O	0.015
L-Aspartic Acid	0.0133
L-Cystine•2HCl	0.0313
L-Glutamic Acid	0.0147
L-Glutamine	0.292
Glycine	0.0075
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	0.0115
L-Serine	0.0105
L-Threonine	0.048
L-Tryptophan	0.01
L-Tyrosine•2Na•2H ₂ O	0.0519
L-Valine	0.046
VITAMINS	g/L
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
OTHER	g/L
D-Glucose	1.0
Phenol Red•Na	0.011
Sodium Bicarbonate	2.2

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