

【Product Name】

Name: Minimum Essential Medium Eagle (MEM), With Earle's salts and L-Glutamine

Cat. No: C3050-0500

Specifications: 500ml

【Product Description】

Minimum Essential Medium (MEM) is a modification of Basal Medium Eagle (BME). It was developed by Harry Eagle to meet the specific nutritional requirements of certain subtypes of Hela cells and normal mammalian fibroblasts. MEM includes higher concentration of amino acids so as to closely approximate the protein composition of cultured mammalian cells. MEM can be used either with Earle's salts or Hanks salts and can also be additionally supplemented with non-essential amino acids (NEAA). This medium can be further modified by eliminating calcium to facilitate growth of cells in suspension cultures.

【Composition】

Ingredients	Mg/L
INORGANIC SALTS	
Calcium chloride dihydrate	265.000
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Sodium chloride	6800.000
Sodium dihydrogen phosphate anhydrous	122.000
AMINO ACIDS	
L-Arginine hydrochloride	126.000
L-Cystine dihydrochloride	31.300
L-Glutamine	292.000

L-Histidine hydrochloride monohydrate	42.000
L-Isoleucine	52.000
L-Leucine	52.000
L-Lysine hydrochloride	72.500
L-Methionine	15.000
L-Phenylalanine	32.000
L-Threonine	48.000
L-Tryptophan	10.000
L-Tyrosine disodium salt	51.900
L-Valine	46.000

VITAMINS

Choline chloride	1.000
D-Ca-Pantothenate	1.000
Folic acid	1.000
Nicotinamide	1.000
Pyridoxal hydrochloride	1.000
Riboflavin	0.100
Thiamine hydrochloride	1.000
i-Inositol	2.000

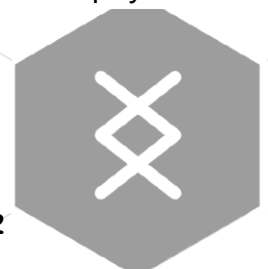
OTHERS

D-Glucose	1000.000
Phenol red sodium salt	11.000
Sodium bicarbonate	2200.000

【Storage and Stability】

Minimum Essential Medium Eagle (MEM), With Earle's salts and L-Glutamine should be stored at 2-8°C. Use before the expiry date.

【Procedure】



1. Take a bottle from the defined storage conditions at 2-8°C and read the label.
2. Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
3. Using aseptic/sterile technique under a laminar-flow culture hood, work according to established protocols.
4. Antibiotics may be added if desired.

【Quality Control】

Minimum Essential Medium Eagle (MEM), With Earle's salts and L-Glutamine is tested for sterility, pH, Osmolality and endotoxin concentrations. In addition, each batch is tested for cell growth using Vero.

【Precaution and Disclaimer】

For research use only, not for clinical diagnosis and treatment.

