

Product Name

Name: Minimum Essential Medium Eagle, (MEME-E), with Earle's salts and L-Alanyl-L-Glutamine, without NEAA

Cat. No.: C3051-0500

Size: 500 mL

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 a higher concentration of amino acids so as to closely approximate the requirement for protein synthesis 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 ions to facilitate the growth of cells in suspension cultures.

The culture medium has been supplemented with L-Alanyl-L-Glutamine in place of L-Glutamine. Compared with L-Glutamine, L-Alanyl-L-Glutamine is much more stable, releases less ammonia in culture, and improves cell viability and growth.

Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific to different cell lines.

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
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Amino acids

L-Arginine hydrochloride	126.000
L-Cystine dihydrochloride	31.300
L-Alanyl-L-Glutamine	433.912
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
Magnesium sulfate	97.670
Sodium bicarbonate	2200.000

Procedure

- Take a bottle from the refrigerator at 2 - 8°C and read the label.



- Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
- Pipette out appropriate volume using an aseptic/sterile technique under a laminar-flow culture hood.
- Add antibiotics or other nutrients if desired.

Storage and Stability

The product should be kept at 2 - 8° C.

The product is light-sensitive and therefore should be protected from light.

Shelf life: 12 months from the date of manufacture..

Precautions

- Do not use it if the packaging is broken or dripping.
- Avoid contamination during operation.
- Rinse immediately with tap water, if the solution contacts the skin and mucous membrane.
- Use before expiry date .

Quality Control

Minimum Essential Medium Eagle (MEM-E), with Earle's Salts and L-Glutamine is tested for sterility, pH, osmolality, and endotoxin concentration. In addition, each batch is tested for cell growth performance.

Manufacturer

Shanghai XP Biomed Ltd.

Issue Date

Mar. 2026

Precaution and Disclaimer

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

