MEM-Alpha product information

PI-C3060 V1.0

【Product Name】

Name：Minimum Essential Medium-Alpha, with L-Glutamine

Cat. No：C3060-0500、C3060-0100

Specifications：500ml、100ml

【Product Description】

Minimum Essential Medium Eagle (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 Hank's 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.

It does not contain deoxyribonucleosides and ribonucleosides. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for 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
AMINO ACIDS	
Glycine	50.000
L-Alanine	25.000
L-Arginine hydrochloride	126.000
L-Asparagine monohydrate	50.000
L-Aspartic acid	30.000
L-Cysteine hydrochloride	100.000
L-Cystine dihydrochloride	31.300
L-Glutamic acid	75.000
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-Proline	40.000
L-Serine	25.000
L-Threonine	48.000
L-Tryptophan	10.000
L-Tyrosine Disodium Salt	51.900
L-Valine	46.000
VITAMINS	
Choline chloride	1.000
D-Biotin	0.100

D-Ca-Pantothenate	1.000
Folic acid	1.000
L-Ascorbic acid	50.000
Nicotinamide	1.000
Pyridoxal hydrochloride	1.000
Riboflavin	0.100
Thiamine hydrochloride	1.000
Vitamin B12	1.360
i-Inositol	2.000
OTHERS	
D-Glucose	1000.000
Lipoic acid	0.200
Phenol red sodium salt	11.000
Sodium pyruvate	110.000
sodium bicarbonate	2200.000

【Storage and Stability】

MEM-Alpha should be kept 2-8°C. The product is light -sensitive and therefore should not be left in the light. When stored in the dark under ideal conditions, the product is stable until the expiry date.

As with any other liquid media formulations, deterioration of liquid media may be recognized by any of the following characteristics, among others including:

(a). Color Change;

(b). Presence of clumping/flocculent debris/ granulation/ particulates\ precipitates or sediments ;

(c). Insolubility;

(d). And/or decrease in expected performance parameters.

Any material described above should not be used and therefore discarded.

【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-Alpha, with L-Glutamine ， without phenol red 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.