



Basal Medium Eagle (BME)

With Earle's salts and Sodium bicarbonate
 Without L-Glutamine

Product Code: AL242

Product Description:

Basal Medium developed by Harry Eagle is a combination of essential nutrients in appropriate concentrations for mono layer cultivation of a wide variety of normal and transformed cells. The medium was initially developed as a result of studies to determine the nutritional requirements of HeLa cells and mouse fibroblast L cells in culture. Although there are many versions of basal medium described by Eagle, the name 'Basal medium, Eagle' applies to only the formulation developed for HeLa cells. Basal medium eagle when properly supplemented supports growth of variety of diploid or primary mammalian cell cultures. Modifications to the original BME have resulted in other media, including MEM and DMEM.

AL242 is Basal Medium Eagle (BME) contains Earle's salt and Sodium bicarbonate. It does not contain L-Glutamine.

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 bicarbonate	350.000
Sodium chloride	6800.000
Sodium dihydrogen phosphate anhydrous	122.000
AMINO ACIDS	
L-Arginine hydrochloride	21.100
L-Cystine dihydrochloride	15.650
L-Histidine hydrochloride	10.500
L-Isoleucine	26.200
L-Leucine	26.200
L-Lysine hydrochloride	36.480
L-Methionine	7.500

L-Phenylalanine	16.500
L-Threonine	23.800
L-Tryptophan	4.000
L-Tyrosine disodium salt	25.950
L-Valine	23.400
VITAMINS	
Choline chloride	1.000
D-Biotin	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

Directions:

Add 10ml of 200mM L-glutamine (TCL012) for 1 litre of medium.

Material required but not provided:

L-Glutamine solution 200mM (TCL012)

Quality Control:

Appearance

Red colored, clear solution

pH

7.00 -7.60

Osmolality in mOsm/Kg H₂O

280.00 -320.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Cultural Response

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts.

Endotoxin Content

NMT 1EU/ml

Storage and Shelf Life:

Store at 2-8°C away from bright light.

Shelf life is 18 months.

Use before expiry date given on the product label.

Disclaimer :

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