Basal Medium Eagle (BME)

w/ Earle's salts w/o L-Glutamine w/25mM Hepes

CAT N° : L0044

Theoretical pH : 7.3 ± 0.3

Osmolality : 310 mOsm/kg ± 10 %

Colour : Clear red orange solution

Storage conditions : +2°C to +8°C in the dark

Shelf life : 24 months

Sterility tests :
- Bacteria in aerobic and anaerobic conditions
- Fungi and yeasts

Endotoxin : < 1 EU/ml

Cell growth test :
Medium tested for the ability to support Hela cell growth.

Composition : Displayed on website, also available on request.

Description :
Basal Medium Eagle (BME), developed by Harry Eagle, is one of the most widely used of all synthetic cell culture media. There are several ''basal'' media described by Eagle that vary slightly from one another. The Tissue Culture Association recommends use of the name ''Eagle's Basal Medium'' to describe only the formula developed to support HeLa cells. This basal medium formula was developed as a result of numerous studies carried out in the late 1950's to determine the essential nutritional requirements and other factors critical to the growth of cells in culture. Historically, BME has been used in studies conducted to measure the growth response of normal (WI-38) and transformed (mouse and HeLa) cells in monolayer culture. BME, when properly supplemented, has demonstrated wide applicability, for supporting monolayer growth of a wide variety of normal and transformed cell lines. BME is the predecessor of Eagle's Minimum Essential Medium (MEM) and Dulbecco's Modified Eagle's Medium (DME).

Recommended use :
- Respect storage conditions of the product
- Do not use the product after its expiry date
- Store product in an area protected from light (not necessary for saline solutions)
- Manipulate the product in aseptic conditions (e.g. : under laminar air flow)
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g. : gloves, mask, hygiene cap, overall…)

The product is intended to be used in vitro, in laboratory only. Do not use it in therapy, human or veterinary applications.

Uses :
Add 10 ml/l of sterile L-Glutamine 200mM (CAT N°:X0550) and mix before using this medium.
BioWest recommend to add 10% of sterile fœtal bovine serum.
Supplements, such as antibiotics, should be added as sterile supplements to the medium. Storage conditions and shelf-life of supplemented product will be affected by the nature of the supplements.

Signs of Deterioration :
Medium should be clear and free of particulate and flocculent material. Do not use if medium is cloudy or contains precipitate.
Other evidence of deterioration may include colour change or degradation of physical or performance characteristics.

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Product code : L0044
Product name : BME w/ Earle's Salts w/ 25 mM Hepes w/o L-Glutamine

CAS Number	Components	Quantity in g/l
10035-04-8	Calcium Chloride Dihydrate	0.26500000
7487-88-9	Magnesium Sulfate Anhydrous	0.09767000
7447-40-7	Potassium Chloride	0.40000000
7647-14-5	Sodium Chloride	6.80000000
7558-80-7	Sodium Phosphate Monobasic Anhydrous	0.12200000
50-99-7	D-Glucose Anhydrous	1.00000000
1119-34-2	L-Arginine Monohydrochloride	0.02100000
30925-07-6	L-Cystine Dihydrochloride	0.01565000
71-00-1	L-Histidine	0.00800000
73-32-5	L-Isoleucine	0.02600000
61-90-5	L-Leucine	0.02600000
657-27-2	L-Lysine Monohydrochloride	0.03647000
63-68-3	L-Methionine	0.00750000
63-91-2	L-Phenylalanine	0.01650000
72-19-5	L-Threonine	0.02400000
73-22-3	L-Tryptophan	0.00400000
69847-45-6	L-Tyrosine Disodium Salt Dihydrate	0.02595000
72-18-4	L-Valine	0.02350000
67-48-1	Choline Chloride	0.00100000
58-85-5	D-Biotin	0.00100000
137-08-6	D-Ca Pantothenate	0.00100000
59-30-3	Folic Acid	0.00100000
87-89-8	Myo-Inositol	0.00200000
98-92-0	Nicotinamide (Nicotinic acid amide)	0.00100000
65-22-5	Pyridoxal Hydrochloride	0.00100000
83-88-5	Riboflavin	0.00010000
67-03-8	Thiamine Hydrochloride	0.00100000
7365-45-9	Hepes Free Acid	5.95800000
34487-61-1	Phenol Red Sodium Salt	0.01100000
144-55-8	Sodium Bicarbonate	2.20000000
WATER		982.90266000

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