

## BME (Basal medium Eagle)

BME and its modifications are widely used to support the growth of a broad spectrum of mammalian cells. The medium was originally designed as a chemically defined medium for the growth of Mouse L and HeLa cells in a serum-deficient system. When used with a serum supplement, BME

is useful for culturing many mammalian cell types, including normal and transformed cells.

This medium is also available as a standard in powder with a minimum order of 500 litres; pack sizes are 10, or 50 litres.

Product	Cat. No.	Unit
<b>BME with Earle's salts</b> with 2.2 g/l NaHCO <sub>3</sub> , without L-glutamine Storage temperature: +2 – +8 °C	F 0225	500 ml

## Formulation

Different from the original formulation, only 0.05 mg/l riboflavin is used to avoid negative photo oxidative effects.

Tab. 11: Composition of the BME medium

Substance	Concentration (mg/l)	Substance	Concentration (mg/l)
NaCl	6800	L-methionine	7.5
KCl	400	L-phenylalanine	16.5
NaH <sub>2</sub> PO <sub>4</sub> ·H <sub>2</sub> O	140	L-threonine	24
MgSO <sub>4</sub> ·7H <sub>2</sub> O	200	L-tryptophane	4
CaCl <sub>2</sub>	200	L-tyrosine	18
D-glucose	1000	L-valine	23.5
Phenol red	10	Biotin	1
NaHCO <sub>3</sub>	2200	Folic acid	1
L-arginine-HCl	21	Choline chloride	1
L-cystine	12	Nicotinamide	1
L-glutamine	292	D-Ca-pantothenate	1
L-histidine	8	Pyridoxal-HCl	1
L-isoleucine	26	Thiamine×HCl	1
L-leucine	26	Riboflavin	0.1
L-lysine-HCl	36.5	Myo-inositol	2

## Reference:

Eagle, H.; *Proc. Soc. Exp. Biol. Med.* **89**, 362 [1955]