

MEM with Earle's Salts

Description

MEM is an advancement of the BME and the base medium of many further modifications. Because BME did not fulfil all requirements for some mammalian and HeLa cells, a better variation had to be developed. Today, MEM is one of the most used synthetic media and shows its versatility by supplementing with amino acids including Hank's or Earle's salts. Even the addition of only small amounts of FBS results in a positive effect on cell growth.

Composition

	Components	mg/L
Inorganic Salts	Calcium chloride x2H ₂ O	264.92
	Magnesium sulfate dried	139.53
	Potassium chloride	400.00
	Sodium chloride	6800.00
	Sodium dihydrogen phosphate x H ₂ O	140.00
Other Components	D(+)-Glucose anhydrous	1000.00
	Hepes	5958.00
	Phenol red	10.00
Amino acids	L-Alanine	8.90
	L-Arginine x HCl	126.00
	L-Asparagine x H ₂ O	13.20
	L-Aspartic acid	13.30
	L-Cystine	24.00
	L-Glutamine	292.00
	L-Glutamic acid	14.70
	Glycine	7.50
	L-Histidine x HCl x H ₂ O	42.00
	L-Isoleucine	52.00
	L-Leucine	52.00
	L-Lysine x HCl	72.50
	L-Methionine	15.00
	L-Phenylalanine	32.00
	L-Proline	11.50
	L-Serine	10.50
	L-Threonine	48.00
	L-Tryptophan	10.00
	L-Tyrosine	36.00
L-Valine	46.00	
Vitamins	D-Calcium pantothenate	1.00
	Choline chloride	1.00
	Folic acid	1.00
	myo-Inositol	2.00
	Nicotinamide	1.00
	Pyridoxal x HCl	1.00
	Riboflavin	0.10
Thiamine x HCl	1.00	

When 5,958.00 mg/L HEPES is included there is only 6,300.00 mg/L sodium chloride.

Liquid Media without Glutamine

MEM Eagle with EBSS⁽²⁾
without L-Glutamine
without NaHCO₃ 500 ml P04-09050

MEM Eagle with EBSS⁽¹⁾
without L-Glutamine
with 2.2 g/L NaHCO₃ 500 ml P04-08050

MEM Eagle with EBSS⁽²⁾
without L-Glutamine
without Phenol red
with 2.2 g/L NaHCO₃ 500 ml P04-00507

MEM Eagle with EBSS⁽¹⁾
without L-Glutamine
with 25 mM Hepes
with 2.2 g/L NaHCO₃ 500 ml P04-08150

Special Media without Glutamine

MEM Eagle with EBSS⁽²⁾
without L-Glutamine
with NEAA
with 2.2 g/L NaHCO₃ 500 ml P04-08509

Powder Media without Glutamine

MEM Eagle with EBSS⁽¹⁾
without L-Glutamine 10 L P03-7410
without NaHCO₃ 50 L P03-7450

(1) usually on stock, (2) minimum order 10 l, (3) available on request

MEM with Earle's Salts

Liquid Media with L-Glutamine

MEM Eagle with EBSS⁽¹⁾
with L-Glutamine
with 2.2 g/L NaHCO₃ 500 ml P04-08500

MEM Eagle with EBSS⁽¹⁾
with L-Glutamine
with 1.5 g/L NaHCO₃ 500 ml P04-00509

MEM Eagle with EBSS⁽²⁾
with L-Glutamine
without Phenol red
with 1.5 g/L NaHCO₃ 500 ml P04-00508

MEM Eagle with EBSS⁽²⁾
with L-Glutamine
with 20 mM Hepes
with 2.2 g/L NaHCO₃ 500 ml P04-08549

MEM Eagle with EBSS⁽²⁾
with L-Glutamine
with NEAA
with 2.2 g/L NaHCO₃ 500 ml P04-08510

Special Media with L-Glutamine

MEM Eagle with EBSS⁽²⁾
with 2 mM Glutamine
with 1 mM Pyruvate
with NEAA
with 1.5 g/L NaHCO₃ 500 ml P04-08056

Powder Media with L-Glutamine

MEM Eagle with EBSS⁽¹⁾
with L-Glutamine
with NEAA 10 L P03-2910
without NaHCO₃ 50L P03-2950

MEM Eagle with EBSS⁽¹⁾
with L-Glutamine
with NEAA
with 25 mM Hepes 10 L P03-3010
with NaHCO₃ 50 L P03-3050

MEM Eagle with EBSS⁽¹⁾
with L-Glutamine
without NaHCO₃ 10 L P03-2710
50 L P03-2750

MEM Eagle with EBSS⁽¹⁾
with L-Glutamine
with 25 mM Hepes 10 L P03-2810
without NaHCO₃ 50 L P03-2850

Liquid Media with stab. Glutamine

MEM Eagle with EBSS⁽¹⁾
with stab. Glutamine
with 2.2 g/L NaHCO₃ 500 ml P04-09500

MEM Eagle with EBSS⁽¹⁾
with stab. Glutamine
with 25 mM Hepes
with 2.2 g/L NaHCO₃ 500 ml P04-08250

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