

## MEM with Earle's salts

Catalogue #: CM50011  
Storage: 4-8 °C  
Packing Size: 500mL

## 产品简介:

Minimum Essential Medium (MEM) 由Harry Eagle于上个世纪50年代开发的培养基工艺, 是最常用的细胞培养基之一, 早期应用于正常哺乳动物成纤维细胞和特定HeLa细胞亚系的培养。相对于Eagle's Basal Medium (BME), MEM中添加了细胞必需的营养成分, 随后的研究显示这些添加的营养成分对大多快速增殖的细胞有促进作用。MEM含有较高水平的氨基酸, 接近于培养的哺乳动物的组分。MEM广泛用于支持单层细胞的生长, 选择性添加非必需氨基酸和Hank's/Earle's盐更进一步扩大了MEM的使用范围。另外降低培养基中钙离子含量适用于悬浮细胞的培养。

本产品含L-glutamine和非必需氨基酸。

**产品类型:** 无菌过滤即用型液体培养基

**渗透压:** 290 ± 30 mOsm

**酸碱度:** 7.2 ± 0.2

## 参考文献:

1. Eagle, H., et al myo-Inositol as an Essential Growth Factor for Normal and Malignant Human Cells in Tissue Culture. J. Biol. Chem., 214, 845-847(1956).
2. Eagle, H., Media for Animal Cell Culture. Tissue Culture Association Manual. 3, 517-520 (1976).
3. Eagle, H., Amino Acid Metabolism in Mammalian Cell Cultures. Science. 130, 432-437(1959).
4. Eagle, H., Nutrition Needs of Mammalian Cells in Culture. Science. 122, 501 (1955).

Inorganic Salts	mg/L
CaCl <sub>2</sub> (anhydrous)	200
KCl	400
MgSO <sub>4</sub> (anhydrous)	97.7
NaCl	6800
NaH <sub>2</sub> PO <sub>4</sub> •H <sub>2</sub> O	140
Na <sub>2</sub> HPO <sub>4</sub>	
NaHCO <sub>3</sub>	2200
Amino Acids	
L-Alanine	8.9
L-Arginine•HCl	126.4
L-Asparagine•H <sub>2</sub> O	15.0
L-Aspartic acid	13.0
L-Cystine•2HCl	31.2
L-Glutamine	292.0
Glycine	7.5
L-Histidine•HCl•H <sub>2</sub> O	41.9
L-Isoleucine	52.5
L-Leucine	52.5
L-Lysine•HCl	72.5
L-Methionine	15
L-Phenylalanine	32.5
L-Proline	11.5
L-Serine	10.5
L-Threonine	47.6
L-Tryptophan	10
L-Tyrosine•2Na•2H <sub>2</sub> O	51.9
L-Valine	46.8
Vitamins	
D-Calcium pantothenate	1
Choline chloride	1
Folic acid	1
i-Inositol	2
Nicotinamide	1
Pyridoxine•HCl	1
Riboflavin	0.1
Thiamine•HCl	1
Other	

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D-Glucose	1000
Phenol red, Na	10

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