

MEM (Richter's Mod.) /IMEM

Catalogue #: CM10024
Storage: 4-8 °C
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。

本产品为改进型MEM (Richter's Modification), 含有L-glutamine和phenol red。

产品类型: 无菌过滤即用型液体培养基

渗透压: 300±20 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).

<i>Inorganic Salts</i>	<i>mg/L</i>	<i>Vitamins</i>	<i>mg/L</i>
CaCl ₂ (anhydrous)	200	Biotin	0.1
FeCl ₃ •6H ₂ O	0.54	D-Calcium pantothenate	1
KCl	400	Choline chloride	56
MgCl ₂ •6H ₂ O	183	Folic acid	2.2
MgSO ₄ •7H ₂ O	25	i-Inositol	36
NaCl	6800	Lineoleic acid	0.08
NaH ₂ PO ₄ •H ₂ O	150	Lipoic acid	0.2
NaHCO ₃	2200	Nicotinamide	1
ZnSO ₄ •7H ₂ O	0.14	Pyridoxine•HCl	1
<i>Amino Acids</i>		Riboflavin	0.1
L-Arginine•HCl	127	Thiamine•HCl	1
L-Asparagine•H ₂ O	60	Vitamin B12	1.36
L-Cystine•2HCl	31.28	Other	
L-Glutamine	292	D-Glucose	2000
L-Histidine•HCl•H ₂ O	42	Phenol red, Na	10
L-Isoleucine	52	Putrescine•2HCl	0.16
L-Leucine	131.2	Sodium pyruvate	110
L-Lysine•HCl	72.6		
L-Methionine	15		
L-Phenylalanine	32		
L-Serine	42		
L-Threonine	48		
L-Tryptophan	10		
L-Tyrosine•2Na•2H ₂ O	51.89		
L-Valine	46		

For resaech use only