



Alpha MEM with Earle's Salts

Cell Culture Medium

产品编号: CM15012

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细胞的组分。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。MEM 的 alpha 改进型 (alpha-MEM) 含有 Earle' s 平衡盐、非必需氨基酸和丙酮酸钠, 并且相对于 BME 提高了维生素含量。该配方由 Stanners 等在 1971 年首先用于培养小鼠和仓鼠的杂交瘤细胞。本产品不含 deoxyribonucleosides, Ribonucleosides 以及 L-glutamine。

产品类型: 无菌过滤即用型液体培养基

渗透压: 295±15 mOsm

酸碱度: 7.2±0.2

储存条件: 4-8°C

包装规格: 500mL

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).
5. Stanners, C.P., et al., Two Types of Ribosome in Mouse-Hampster Hybrid Cells. Nature New Biology. 230,52-54 (1971).
6. Stanners, C.P., and Goldberg, V.J., On the Mechanism of Neutropism of Vesicular Stomatitis Virus in Newborn Hampsters. Studies With Temperature-Sensitive Mutants. J. Gen. Virol. 29, 281-296 (1975).

化学成分:

Inorganic Salts	mg/L	L-Histidine•HCl•H2O	41.9	Folic acid	1
CaCl2 (anhydrous)	200	L-Isoleucine	52.5	i-Inositol	2
KCl	400	L-Leucine	52.5	Nicotinamide	1
MgSO4 (anhydrous)	97.7	L-Lysine•HC	72.5	Pyridoxine•HCl	1
NaCl	6800	L-Methionine	15	Riboflavin	0.1
NaH2PO4•H2O	140	L-Phenylalanine	32.5	Thiamine•HCl	1
NaHCO3	2200	L-Proline	40	Vitamin B12	1.36
		L-Serine	25		
Amino Acids	mg/L	L-Threonine	47.6	Other	mg/L
L-Alanine	25	L-Tryptophan	10	D-Glucose	1000
L-Arginine•HCl	126.4	L-Tyrosine•2Na•2H2O	51.9	Lipoic acid	0.2
L-Asparagine•H2O	50	L-Valine	46.8	Phenol red, Na	10
L-Aspartic acid	30			Sodium pyruvate	110
L-Cysteine•HCl•H2O	100	Vitamins	mg/L		
L-Cystine•2HCl	31.2	Ascorbic acid	50		
L-Glutamic acid	75	Biotin	0.1		
L-Glutamine		D-Calcium pantothenate	1		
Glycine	50	Choline chloride	1		



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