



RPMI 1640, 含 L-谷氨酰胺, 不含葡萄糖

货号: R7761

规格: 500ml

有效期: 2-8°C避光保存, 有效期 12 个月。

产品简介:

RPMI-1640是Moore等人在上个世纪 60 年代开发的, 名字RPMI由他们当时工作的研究所名称的字头缩写组成 (Roswell Park Memorial Institute)。培养基组分是在他们先前开发的RPMI-1630的基础上改变了氨基酸和维生素的含量, 缓冲体系仍然采用碳酸氢盐 (bicarbonate) 系统。RPMI-1640曾被用来培养人正常或者异常增生的白细胞。通过添加不同的成分, RPMI-1640广泛用于支持许多种细胞的生长和增殖, 为最常用的细胞培养基之一。

本品含L-glutamine, 不含D-Glucose。

渗透压: 300±20 mOsm

酸碱度: 7.2±0.1

Components	Concentration (mg/L)
<i>Inorganic Salts</i>	
Ca(NO ₃) ₂ • 4H ₂ O	100
KCl	400.00
MgSO ₄ (anhydrous)	48.80
NaCl	6000.00
Na ₂ HPO ₄ (anhydrous)	800.70
NaHCO ₃	2000.00
<i>Amino Acids</i>	
L-Arginine • HCl	200.00
L-Asparagine • H ₂ O	56.82
L-Aspartic acid	20.00
L-Cystine • 2HCl	65.20
L-Glutamic acid	20.00
L-Glutamine	300.00
L-Histidine	15.00
Glycine	10.00
Hydroxy-L-proline	20.00
L-Isoleucine	50.00
L-Leucine	50.00
L-Lysine • HCl	40.00
L-Methionine	15.00
L-Phenylalanine	15.00
L-Proline	20.00
L-Serine	30.00

L-Threonine	20.00
L-Tryptophan	5.00
L-Tyrosine • 2Na • 2H ₂ O	28.83
L-Valine	20.00
<i>Vitamins</i>	
Biotin	0.20
D-Calcium pantothenate	0.25
Choline chloride	3.00
Folic acid	1.00
<i>i</i> -Inositol	35.00
Nicotinamide	1.00
<i>Para</i> -Aminobenzoic acid	1.00
Pyridoxine • HCl	1.00
Riboflavin	0.20
Thiamine • HCl	1.00
Vitamin B12	0.005
<i>Other</i>	
D-Glucose	-
Glutathione (reduced)	1.00
HEPES	-
Phenol red, Na	5.00

参考文献:

1. Moore, G.E., Gerner, R.E. and Franklin, H.A., (1967). Culture of Normal Human Leukocytes. JAMA. 199, 519-524.
2. Moore, G.E. and Woods L.K., (1976). Culture Media for Human Cells- RPMI 1603, RPMI 1634, RPMI 1640 and GEM 1717. Tissue Culture Association Manual. 3,503-508.
3. Moore, G.E. Gerner, R.E. and Minowada, J., (1967). Studies of Normal and Neoplastic Cells. Studies of Normal and Neoplastic Human Hematopoietic Cells In Vitro. Twenty-first Annual Symposium on Fundamental Cancer Research. February, 41-63.
4. Moore, G.E. and Kitamura, H., (1968). Cell Line Derived from Patient with Myeloma. NY State Journal of Medicine. 68, 2054-2060