

RPMI 1640
Cell Culture Medium

产品编号: CM302001

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。

RPMI-1640 培养基经 (TACC 改良) 含有 2mm L-谷氨酰胺、10 mM HEPES、1 mM 丙酮酸钠、4500 mg/L 葡萄糖和 1500 mg/L 碳酸氢钠

产品类型: 无菌过滤即用型液体培养基

包装规格: 500 mL

储存条件: 4-8°C

渗透压: 285±20 mOsm

酸碱度: 7.2-7.4

参考文献:

5. Moore, G.E., Gerner, R.E. and Franklin, H.A., (1967). Culture of Normal Human Leukocytes. JAMA. 199, 519-524.
6. 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.
7. 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.
8. Moore, G.E. and Kitamura, H., (1968). Cell Line Derived from Patient with Myeloma. NY State Journal of Medicine. 68, 2054-2060.

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产品成分:

Catalog No.	CM10040	CM10041	CM10043	CM15040	CM10042	CM302001
Inorganic Salts	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Ca(NO ₃) ₂ •4H ₂ O	100	100	100	100	100	100
KCl	400	400	400	400	400	400
MgSO ₄ (anhydrous)	48.8	48.8	48.8	48.8	48.8	48.8
NaCl	6000	6000	6000	6000	6000	6000
Na ₂ HPO ₄ (anhydrous)	800.7	800.7	800.7	800.7	800.7	800.7
NaHCO ₃	2000	2000	2000	2000	2000	1500
Amino Acids						
L-Arginine•HCl	200	200	200	200	200	200
L-Asparagine•H ₂ O	56.82	56.82	56.82	56.82	56.82	56.82
L-Aspartic acid	20	20	20	20	20	20
L-Cystine•2HCl	65.2	65.2	65.2	65.2	65.2	65.2
L-Glutamic acid	20	20	20	20	20	20
L-Glutamine	300	300	300	300	300	300
Glycine	10	10	10	10	10	10
L-Histidine	15	15	15	15	15	15
Hydroxy-L-proline	20	20	20	20	20	20
L-Isoleucine	50	50	50	50	50	50
L-Leucine	50	50	50	50	50	50
L-Lysine•HCl	40	40	40	40	40	40
L-Methionine	15	15	15	15	15	15
L-Phenylalanine	15	15	15	15	15	15
L-Proline	20	20	20	20	20	20
L-Serine	30	30	30	30	30	30
L-Threonine	20	20	20	20	20	20
L-Tryptophan	5	5	5	5	5	5
L-Tyrosine•2Na•2H ₂ O	28.83	28.83	28.83	28.83	28.83	28.83
L-Valine	20	20	20	20	20	20
Vitamins						
Biotin	0.2	0.2	0.2	0.2	0.2	0.2
D-Calcium pantothenate	0.25	0.25	0.25	0.25	0.25	0.25
Choline chloride	3	3	3	3	3	3
Folic acid	1	1	1	1	1	1
i-Inositol	35	35	35	35	35	35
Nicotinamide	1	1	1	1	1	1
Para-Aminobenzoic acid	1	1	1	1	1	1
Pyridoxine•HCl	1	1	1	1	1	1
Riboflavin	0.2	0.2	0.2	0.2	0.2	0.2
Thiamine•HCl	1	1	1	1	1	1
Vitamin B12	0.005	0.005	0.005	0.005	0.005	0.005
Other						
D-Glucose	2000	2000	2000	2000	2000	4500
Glutathione (reduced)	1	1	1	1	1	1
HEPES		5958				2383
Phenol red, Na sodium pyruvate	5	5	5	5	5	110

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