

# HAKATA a-MEM 培养基配方表

( $\alpha$ 改良型, 含 L-谷氨酰胺, 核糖核苷及脱氧核糖核苷)

Components		Concentration (mg/L)	mM
<b>Amino Acids</b>			
	<b>中文名称</b>		
Glycine	甘氨酸	50	0.6666667
L-Alanine	L-丙氨酸	25	0.28089887
L-Arginine hydrochloride	L-精氨酸盐酸盐	105	0.49763033
L-Asparagine-H2O	L-天冬酰胺-H2O	50	0.33333334
L-Aspartic acid	L-天门冬氨酸	30	0.22556391
L-Cysteine hydrochloride-H2O	L-半胱氨酸盐酸盐-H2O	100	0.5681818
L-Cystine 2HCl	L-胱氨酸二盐酸盐	31	0.09904154
L-Glutamic Acid	L-谷氨酸	75	0.5102041
L-Glutamine	L-谷氨酰胺	292	2
L-Histidine	L-组氨酸	31	0.2
L-Isoleucine	L-异亮氨酸	52.4	0.4
L-Leucine	L-亮氨酸	52	0.39694658
L-Lysine	L-赖氨酸	73	0.3989071
L-Methionine	L-蛋氨酸	15	0.10067114
L-Phenylalanine	L-苯丙氨酸	32	0.19393939
L-Proline	L-脯氨酸	40	0.3478261
L-Serine	L-丝氨酸	25	0.23809524
L-Threonine	L-苏氨酸	48	0.40336135
L-Tryptophan	L-色氨酸	10	0.04901961
L-Tyrosine disodium salt	L-酪氨酸二钠盐	52	0.23111111
L-Valine	L-缬氨酸	46	0.3931624
<b>Vitamins</b>			
Ascorbic Acid	抗坏血酸	50	0.2840909
Biotin	生物素	0.1	4.10E-04
Choline chloride	氯化胆碱	1	0.007142857
D-Calcium pantothenate	D-泛酸钙	1	0.002096436
Folic Acid	叶酸	1	0.002267574
Niacinamide	尼克酰胺	1	0.008196721

Pyridoxal hydrochloride	盐酸吡哆醇	1	0.004901961
Riboflavin	核黄素	0.1	2.66E-04
Thiamine hydrochloride	盐酸硫胺	1	0.002967359
Vitamin B12	维生素 B12	1.36	0.00100369
i-Inositol	肌醇	2	0.011111111

## Inorganic Salts

Calcium Chloride (CaCl <sub>2</sub> ) (anhyd.)	CaCl <sub>2</sub> (无水)	200	1.8018018
Magnesium Sulfate (MgSO <sub>4</sub> ) (anhyd.)	MgSO <sub>4</sub> (无水)	97.67	0.8139166
Potassium Chloride (KCl)	KCl	400	5.3333335
Sodium Bicarbonate (NaHCO <sub>3</sub> )	NaHCO <sub>3</sub>	2200	26.190475
Sodium Chloride (NaCl)	NaCl	6800	117.24138
Sodium Phosphate monobasic (NaH <sub>2</sub> PO <sub>4</sub> -H <sub>2</sub> O)	NaH <sub>2</sub> PO <sub>4</sub> (一水)	140	1.0144928

## Ribonucleosides

Adenosine	腺苷	10	0.037453182
Cytidine	胞苷	10	0.041152265
Guanosine	鸟苷	10	0.03533569
Uridine	尿苷	10	0.040983606

## Deoxyribonucleosides

2'Deoxyadenosine	2'脱氧腺苷	10	0.03984064
2'Deoxyctidine HCl	2'脱氧胞苷盐酸盐	11	0.041666668
2'Deoxyguanosine	2'脱氧鸟苷	10	0.037453182
Thymidine	胸苷	10	0.041322313

## Other Components

D-Glucose (Dextrose)	D-葡萄糖	1000	5.5555553
Lipoic Acid	硫辛酸	0.2	9.71E-04
Phenol Red	酚红	10	0.026567481
Sodium Pyruvate	丙酮酸钠	110	1