

北京协和细胞资源中心
Cell Resource Center, IBMS, CAMS/PUMC

培养基配方

CCCM017: RPMI1640(w/o Hepes)

**RPMI 1640
(without Hepes)**

Compound	Formula	mg/L
Part A: Inorganic Salts		
Calcium nitrate·4H ₂ O	Ca(NO ₃) ₂ ·4H ₂ O	100.00
Magnesium sulfate·7 H ₂ O	MgSO ₄ ·7 H ₂ O	100.00
Potassium chloride	KCl	400.00
Sodium bicarbonate	NaHCO ₃	2000.00
Sodium chloride	NaCl	6000.00
Sodium phosphate·7H ₂ O	Na ₂ HP0 ₄ ·7H ₂ O	1512.00
Part B: Other components		
D-Glucose	C ₆ H ₁₂ O ₆	2000.00
Glutathione (reduced)	C ₁₀ H ₁₇ N ₃ O ₆ S	1.00
Phenol Red	C ₁₉ H ₁₂ O ₅ S·Na ₂	5.00
Part C: Amino Acids		
L-Arginine hydrochloride	C ₆ H ₁₄ N ₄ O ₂ HCl	200.00
L-Asparagine (free base)	C ₄ H ₈ N ₂ O ₃	50.00
L-Aspartic acid	C ₄ H ₇ N ₁ O ₄	20.00
L-Cystine	C ₆ H ₁₂ N ₂ O ₄ S ₂	50.00
L-Glutamic acid	C ₅ H ₉ NO ₄	20.00
L-Glutamine	C ₅ H ₁₀ N ₂ O ₃	300.00
Glycine	C ₂ H ₅ NO ₂	10.00
L-Histidine hydrochloride H ₂ O (freebase)	C ₆ H ₉ N ₃ O ₂ HCl H ₂ O	15.00

北京协和细胞资源中心
Cell Resource Center, IBMS, CAMS/PUMC

培养基配方

L-Hydroxyproline	$C_5H_9NO_3$	20.00
L-Isoleucine (Allo free)	$C_6H_{13}NO_2$	50.00
L-Leucine, (methionine free)	$C_6H_{13}NO_2$	50.00
L-Lysine HCl	$C_6H_{14}N_2O_2 \cdot HCl$	40.00
L-Methionine	$C_5H_{11}NO_2S$	15.00
L-Phenylalanine	$C_9H_{11}NO_2$	15.00
L-Proline (H-L-Proline free)	$C_5H_9NO_2$	20.00
L-Serine	$C_3H_7NO_3$	30.00
L-Threonine (Allo free)	$C_4H_9NO_3$	20.00
L-Tryptophan	$C_{11}H_{12}N_2O_2$	5.00
L-Tyrosine	$C_9H_{11}NO_3$	20.00
L-Valine	$C_5H_{11}NO_2$	20.00

Part D: Vitamins

Biotin	$C_{10}H_{16}N_2O_3S$	0.20
D-Calcium pantothenate	$C_{18}H_{32}CaN_2O_{10}$	0.25
Choline chloride	$C_5H_{14}ClNO$	3.00
Folic acid	$C_{19}H_{19}N_7O_6$	1.00
i-Inositol	$C_6H_{12}O_6$	35.00
Nicotinamide	$C_6H_6N_2O$	1.00
Para-Amino Benzoic Acid	$C_7H_7NO_2$	1.00
Pyridoxine hydrochloride	$C_8H_9NO_3 \cdot HCl$	1.00
Riboflavin	$C_{17}H_{20}N_4O_6$	0.200
Thiamine hydrochloride	$C_{12}H_{17}ClN_4OS \cdot HCl$	1.00
Vitamin B ₁₂	$C_{63}H_{88}CoN_{14}O_{14}P$	0.005

pH 7.0

Osmolarity: 281-294 mOsm