McCoy's 5A Media (Modified without Tricine)

CCF Product Code Number: CCFAD001 (Old Code AI100)

Compound	Formula	mg/L
Part A: Inorganic Salts		
Calcium chloride (anhydrous)	$CaCl_2$	100.00
Magnesium sulfate·7H_2O	$MgSO_4 \cdot 7H_2O$	200.00
Potassium chloride	KCl	400.00
Sodium bicarbonate	$NaHCO_3$	2200.00
Sodium chloride	NaCl	6460.00
Sodium phosphate·H_20	$NaH_2P0_4 \cdot H_20$	580.00
Part B: Other components		
Bacto-Peptone G		600.00
D-Glucose	$C_6H_{12}O_6$	3000.00
Glutathione (reduced)	$C_{10}H_{17}N_3O_6S$	0.50
Phenol Red (Na)	$C_{19}H_{13}O_5S \cdot Na_2$	10.00
Part C: Amino Acids		
L-Alanine	$C_3H_7NO_2$	13.90
L-Arginine hydrochloride	$C_6H_{14}N_4O_2$ HCl	42.10
L-Asparagine	$C_4H_8N_2O_3$	45.00
L-Aspartic acid	$C_4H_7N_{O4}$	19.97
L-Cysteine	$C_3H_7NO_2S$	31.50
L-Glutamic acid	$C_5H_9NO_4$	22.10
L-Glutamine	$C_5H_{10}N_2O_3$	219.20
Glycine	$C_2H_5NO_2$	7.50
L-Histidine HCl H_2O	$C_6H_9N_3O_2$ HCl H_2O	20.96

L-Hydroxyproline	$C_5H_9NO_3$	19.70
L-Isoleucine	$C_6H_{13}NO_2$	39.36
L-Leucine	$C_6H_{13}NO_2$	39.36
L-Lysine HCl	$C_6H_{14}N_2O_2 \cdot HCl$	36.50
L-Methionine	$C_5H_{11}NO_2S$	14.90
L-Phenylalanine	$C_9H_{11}NO_2$	16.50
L-Proline	$C_5H_9NO_2$	17.40
L-Serine	$C_3H_7NO_3$	26.30
L-Threonine	$C_4H_9NO_3$	17.90
L-Tryptophan	$C_{11}H_{12}N_2O_2$	3.10
L-Tyrosine	$C_9H_{11}NO_3$	18.10
L-Valine	$C_5H_{11}NO_2$	17.60

Part D: Vitamins

Ascorbic acid	$C_6H_8O_6$	0.50
Biotin	$C_{10}H_{16}N_2O_3S$	0.20
D-Calcium pantothenate	$C_{18}H_{32}CaN_2O_{10}$	0.20
Choline chloride	$C_5H_{14}ClNO$	5.00
Folic acid	$C_{19}H_{19}N_7O_6$	10.00
i-Inositol	$C_6H_{12}O_6$	36.00
Nicotinamide	$C_6H_6N_2O$	0.50
Nicotinic acid	$C_6H_5NO_2$	0.50
Para-Amino Benzoic Acid	$C_7H_7NO_2$	1.00
Pyridoxal hydrochloride	$C_8H_9NO_3 \cdot HCl$	0.50
Pyridoxine hydrochloride	$C_8H_{12}ClNO_3$	0.50
Riboflavin	$C_{17}H_{20}N_4O_6$	0.20
Thiamine hydrochloride	$C_{12}H_{17}ClN_4OS \cdot HCl$	0.20
Vitamin B_{12}	$C_{63}H_{88}CoN_{14}O_{14}P$	2.00

pH 7.2 Osmolarity: 298-308 mOsm

Produced by Cell Culture Facility-University of California, San Francisco
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