M-199, EBSS
with Earle's Balanced Salts Solution (EBSS)

CCF Product Code Number: CCFAX001 (Old Code AG100)

Compound	Formula	mg/L
Part A: Inorganic Salts		
Calcium chloride (anhydrous)	$CaCl_2$	200.00
Magnesium sulfate·$7H_2O$	$MgS0_4 \cdot 7H_2O$	200.00
Potassium chloride	KCl	400.00
Sodium acetate	$C_2H_3O_2Na$	50.00
Sodium bicarbonate	$NaHCO_3$	2200.00
Sodium chloride	NaCl	6800.00
Sodium phosphate·H_20	$NaH_2P0_4 \cdot H_20$	140.00
Part B: Other components		
D-Glucose	$C_6H_{12}O_6$	1000.00
Ferric nitrate $9H_2O$	$Fe(NO_3)_3$ $9H_2O$	0.72
Glutathione (reduced)	$C_{10}H_{17}N_3O_6S$	0.050
Phenol Red	$C_{19}H_{13}O_5S \cdot Na_2$	20.00
Tween 80	Polyoxyethylenesorbitanmonooleate	20.00
Cholesterol	$C_{27}H_{46}O$	0.20
Part C: Amino Acids		
D,L-Alanine	$C_3H_7NO_2$	50.00
L-Arginine hydrochloride	$C_6H_{14}N_4O_2$ HCl	70.00

D,L-Aspartic acid	$C_4H_7N_{O4}$	60.00
L-Cysteine hydrochloride H_2O	$C_3H_7NO_2S$ HCl. H_2O	0.11
L-Cystine	$C_6H_{12}N_2O_4S_2$	20.00
D,L-Glutamic acid	$C_5H_9NO_4$	150.00
L-Glutamine	$C_5H_{10}N_2O_3$	100.00
Glycine	$C_2H_5NO_2$	50.00
L-Histidine hydrochloride H_20	$C_6H_9N_3O_2$ HCl H_20	21.88
L-Hydroxyproline	$C_5H_9NO_3$	10.00
D,L-Isoleucine	$C_6H_{13}NO_2$	40.00
D,L-Leucine	$C_6H_{13}NO_2$	120.00
L-Lysine HCl	$C_6H_{14}N_2O_2 \cdot HCl$	70.00
D,L-Methionine	$C_5H_{11}NO_2S$	30.00
D,L-Phenylalanine	$C_9H_{11}NO_2$	50.00
L-Proline	$C_5H_9NO_2$	40.00
D,L-Serine	$C_3H_7NO_3$	50.00
D,L-Threonine	$C_4H_9NO_3$	60.00
D,L-Tryptophan	$C_{11}H_{12}N_2O_2$	20.00
L-Tyrosine	$C_9H_{11}NO_3$	40.00
D,L-Valine	$C_5H_{11}NO_2$	50.00

Part D: Vitamins

Ascorbic acid	$C_6H_8O_6$	0.05
D-Ca Pantothenate		0.01
d-Biotin	$C_{10}H_{16}N_2O_3S$	0.01
Choline chloride	$C_5H_{14}CINO$	0.50
Folic acid	$C_{19}H_{19}N_7O_6$	0.01
i-Inositol	$C_6H_{12}O_6$	0.05
Niacin (Nicotinic acid)	$C_6H_5NO_2$	0.025
Niacinamide	$C_6H_6N_2O$	0.025
Para-Amino Benzoic Acid	$C_7H_7NO_2$	0.05
Pyridoxal hydrochloride	$C_8H_9NO_3 \cdot HCl$	0.025

Pyridoxine hydrochloride	$C_8H_9NO_3 \cdot HCl$	0.025
Riboflavin	$C_{17}H_{20}N_4O_6$	0.010
Thiamine hydrochloride	$C_{12}H_{17}ClN_4OS \cdot HCl$	0.010
Calciferol (Vitamin D_2)	$C_{28}H_{44}O$	0.10
Menadione (Vitamin K^3)	$C_{11}H_8O_2$	0.01
α Tocopherol P04 (disodium salt) (Vitamin E)	$C_{29}H_{49}O_5Pna_2$	0.01
Vitamin A (acetate)	$C_{22}H_{32}O_2$	0.14

Part E: Nucleosides

Adenosine 5'- triphosphate disodium salt $3H_20$	$C_{10}H_{14}N_5Na_2O_{13}P_3\ 3H_20$	1.00
Adenine sulfate	$(C_3H_5N_5)\ H_2SO_4$	10.00
Adenylic acid	$C_{10}H_{14}N_5O_7P$	0.20
Deoxyribose	$C_{10}H_5O_4$	0.50
D-Ribose	$C_5H_{10}O_5$	0.50
Guanine hydrochloride (freebase)	$C_5H_5N_5O\ HCl$	0.30
Hypoxanthine	$C_5H_4N_4O$	0.30
Thymine	$C_5H_6N_2O_2$	0.30
Uracil	$C_4H_4N_2O_2$	0.30
Xanthine	$C_5H_4N_4O_2$	0.30

pH 7.4 Osmolarity: 295-305 mOsm