



Media Formulation

Ham's F-12

Cat. No.: CC119-0500

Components	Concentration (mg/L)
Amino Acids	
Glycine	7.5
L-Alanine	8.9
L-Arginine hydrochloride	211.0
L-Asparagine-H ₂ O	15.01
L-Aspartic acid	13.3
L-Cysteine hydrochloride-H ₂ O	35.12
L-Glutamic Acid	14.7
L-Glutamine	146.0
L-Histidine hydrochloride-H ₂ O	21.0
L-Isoleucine	4.0
L-Leucine	13.1
L-Lysine hydrochloride	36.5
L-Methionine	4.5
L-Phenylalanine	5.0
L-Proline	34.5
L-Serine	10.5
L-Threonine	11.9
L-Tryptophan	2.04
L-Tyrosine disodium salt dihydrate	7.81
L-Valine	11.7
Vitamins	
Biotin	0.0073
Choline chloride	14.0
D-Calcium pantothenate	0.5
Folic Acid	1.3

Components	Concentration (mg/L)
Niacinamide	0.036
Pyridoxine hydrochloride	0.06
Riboflavin	0.037
Thiamine hydrochloride	0.3
Vitamin B12	1.4
i-Inositol	18.0
Inorganic Salts	
Calcium Chloride (CaCl ₂) (anhyd.)	33.22
Cupric sulfate (CuSO ₄ ·5H ₂ O)	0.0025
Ferric sulfate (FeSO ₄ ·7H ₂ O)	0.834
Magnesium Chloride (anhyd.)	57.22
Potassium Chloride (KCl)	223.6
Sodium Bicarbonate (NaHCO ₃)	1176.0
Sodium Chloride (NaCl)	7599.0
Sodium Phosphate dibasic (Na ₂ HPO ₄) (anhyd.)	142.0
Zinc sulfate (ZnSO ₄ ·7H ₂ O)	0.863
Other Components	
D-Glucose (Dextrose)	1802.0
Hypoxanthine Na	4.77
Linoleic Acid	0.084
Lipoic Acid	0.21
Phenol Red	1.2
Putrescine 2HCl	0.161
Sodium Pyruvate	110.0
Thymidine	0.7