



# Media Formulation

## Ham's F-12K (Kaighn's Modification)

Cat. No.: CC118-0500

Components	Concentration (mg/L)
<b>Amino Acids</b>	
Glycine	15.0
L-Alanine	18.0
L-Arginine hydrochloride	422.0
L-Asparagine-H <sub>2</sub> O	30.0
L-Aspartic acid	26.6
L-Cysteine hydrochloride-H <sub>2</sub> O	70.0
L-Glutamic Acid	29.0
L-Glutamine	292.0
L-Histidine hydrochloride-H <sub>2</sub> O	45.8
L-Isoleucine	7.88
L-Leucine	26.2
L-Lysine hydrochloride	73.0
L-Methionine	8.96
L-Phenylalanine	9.92
L-Proline	69.0
L-Serine	21.0
L-Threonine	23.0
L-Tryptophan	4.1
L-Tyrosine disodium salt dihydrate	13.5
L-Valine	23.0
<b>Vitamins</b>	
Biotin	0.07
Choline chloride	14.0
D-Calcium pantothenate	0.5
Folic Acid	1.3

Components	Concentration (mg/L)
Niacinamide	0.037
Pyridoxine hydrochloride	0.06
Riboflavin	0.04
Thiamine hydrochloride	0.3
Vitamin B12	1.4
i-Inositol	18.0
<b>Inorganic Salts</b>	
Calcium Chloride (CaCl <sub>2</sub> ) (anhyd.)	102.0
Cupric sulfate (CuSO <sub>4</sub> ·5H <sub>2</sub> O)	0.002
Ferric sulfate (FeSO <sub>4</sub> ·7H <sub>2</sub> O)	0.8
Magnesium Chloride (anhyd.)	49.7
Magnesium Sulfate (MgSO <sub>4</sub> ) (anhyd.)	192.0
Potassium Chloride (KCl)	285.0
Sodium Bicarbonate (NaHCO <sub>3</sub> )	2500.0
Sodium Chloride (NaCl)	7530.0
Sodium Phosphate dibasic (Na <sub>2</sub> HPO <sub>4</sub> ) (anhyd.)	115.5
Sodium Phosphate monobasic (NaH <sub>2</sub> PO <sub>4</sub> ) (anhyd.)	59.0
Zinc sulfate (ZnSO <sub>4</sub> ·7H <sub>2</sub> O)	0.144
<b>Other Components</b>	
D-Glucose (Dextrose)	1260.0
Hypoxanthine Na	4.0
Lipoic Acid	0.21
Phenol Red	3.0
Putrescine 2HCl	0.32
Sodium Pyruvate	220.0
Thymidine	0.7