

## F12K Nutrient Mixture (Kaighn's Modification)

Catalog No.	10-025 1X, Liquid F-12K
<b>Inorganic Salts</b>	
	<b>mg/L</b>
CaCl <sub>2</sub> (anhydrous)	102.00
CuSO <sub>4</sub> • 5H <sub>2</sub> O	0.002
Fe(NO <sub>3</sub> ) <sub>3</sub> • 9H <sub>2</sub> O	--
FeSO <sub>4</sub> • 7H <sub>2</sub> O	0.800
KCl	285.00
KH <sub>2</sub> PO <sub>4</sub>	59.00
MgCl <sub>2</sub> (anhydrous)	49.70
MgSO <sub>4</sub> (anhydrous)	192.00
NaCl	7530.00
NaH <sub>2</sub> PO <sub>4</sub> (anhydrous)	--
Na <sub>2</sub> HPO <sub>4</sub> (anhydrous)	115.50
NaHCO <sub>3</sub>	2500.00
ZnSO <sub>4</sub> • 7H <sub>2</sub> O	0.144
<b>Amino Acids</b>	
L-Alanine	18.00
L-Arginine • HCl	422.00
L-Asparagine • H <sub>2</sub> O	30.00
L-Aspartic acid	26.60
L-Cysteine • HCl • H <sub>2</sub> O	70.00
L-Cystine • 2HCl	--
L-Glutamic acid	29.00
L-Glutamine	292.00
Glycine	15.00
L-Histidine • HCl • H <sub>2</sub> O	45.80
L-Isoleucine	7.88
L-Leucine	26.20
L-Lysine • HCl	73.00
L-Methionine	8.96
L-Phenylalanine	9.92
L-Proline	69.00
L-Serine	21.00
L-Threonine	23.00
L-Tryptophan	4.10
L-Tyrosine • 2Na • 2H <sub>2</sub> O	13.50
L-Valine	23.00
<b>Vitamins</b>	
Biotin	0.070
D-Calcium pantothenate	0.50
Choline chloride	14.00
Folic acid	1.30
i-Inositol	18.00
Nicotinamide	0.037
Pyridoxine • HCl	0.060
Riboflavin	0.040
Thiamine • HCl	0.30
Vitamin B <sub>12</sub>	1.40

Other	mg/L
D-Glucose	1260.00
HEPES	--
Hypoxanthine, Na	4.00
Lipoic acid	0.21
Methyl lineoleate	--
Phenol red, Na	3.00
Putrescine • 2HCl	0.32
Sodium pyruvate	220.00
Thymidine	0.70
<b>Add</b>	
NaHCO <sub>3</sub>	
Powder (g/L)	--
7.5% Solution (mL/L)	--
L-Glutamine	
Powder (mg/L)	--
200 mM Solution (mL/L)	--
<b>Specifications</b>	
pH	7.2 ± 0.2
Osmolality (mOsm)	338 ± 16