Formulations & Specifications

Ham's F-12

Product Number HFP05-10X1LT

With L-glutamine. Without sodium bicarbonate. Store at 2° to 8°C.

Components	mg/L
Biotin ($C_{10}H_{16}N_2O_3S$)	0.0070
Calcium Chloride, Anhydrous ($CaCl_2$)	33.2000
Choline Chloride ($C_5H_{14}ONCl$)	14.0000
Cupric Sulfate, Pentahydrate ($CuSO_4 . 5H_2O$)	0.0025
D-Calcium Pantothenate ($C_{18}H_{32}CaN_2O_{10}$)	0.5000
D-Glucose, Anhydrous ($C_6H_{12}O_6$)	1802.0000
Ferrous Sulfate, Heptahydrate ($FeSO_4.7H_2O$)	0.8300
Folic Acid ($C_{19}H_{19}N_7O_6$)	1.3000
Glycine ($C_2H_5NO_2$)	7.5000
Hypoxanthine, Sodium ($C_5H_3N_4O.Na$)	4.7000
L-Alanine ($C_3H_7NO_2$)	8.9000
L-Arginine, Hydrochloride ($C_6H_{14}N_4O_2 . HCl$)	211.0000
L-Asparagine, Monohydrate ($C_4H_8N_2O_3 . H_2O$)	15.0000
L-Aspartic Acid ($C_4H_7NO_4$)	13.0000
L-Cysteine, Hydrochloride, Monohydrate ($C_3H_7NO_2 . HCl . H_2O$)	35.0000
L-Glutamic Acid ($C_5H_9NO_4$)	14.7000
L-Glutamine ($C_5H_{10}N_2O_3$)	146.0000
L-Histidine, Hydrochloride, Monohydrate ($C_6H_9N_3O_2 . HCl . H_2O$)	21.0000
L-Isoleucine ($C_6H_{13}NO_2$)	4.0000
L-Leucine ($C_6H_{13}NO_2$)	13.0000
L-Lysine, Hydrochloride ($C_6H_{14}N_2O_2 . HCl$)	36.5000
L-Methionine ($C_5H_{11}NO_2S$)	4.5000
L-Phenylalanine ($C_9H_{11}NO_2$)	5.0000
L-Proline ($C_5H_9NO_2$)	34.5000
L-Serine ($C_3H_7NO_3$)	10.5000
L-Threonine ($C_4H_9NO_3$)	12.0000
L-Tryptophan ($C_{11}H_{12}N_2O_2$)	2.0000
L-Tyrosine, Disodium, Dihydrate ($C_9H_9NO_3Na_2.2H_2O$)	7.8000
L-Valine ($C_5H_{11}NO_2$)	11.7000
Linoleic Acid ($C_{18}H_{32}O_2$)	0.0800
Lipoic Acid (DL-Thiotic Acid) ($C_8H_{14}O_2S_2$)	0.2100
Magnesium Chloride, Anhydrous ($MgCl_2$)	57.2200
Myo-Inositol ($C_6H_{12}O_6$)	18.0000
Niacinamide ($C_6H_6N_2O$)	0.0400
Phenol Red, Sodium Salt ($C_{19}H_{13}NaO_5S$)	1.2000
Potassium Chloride (KCl)	223.6000
Putrescine, Dihydrochloride ($C_4H_{12}N_2.2HCl$)	0.1600
Pyridoxine, Hydrochloride ($C_8H_{11}NO_3 . HCl$)	0.0600
Pyruvic Acid, Sodium Salt ($C_3H_3NaO_3$)	110.0000
Riboflavin ($C_{17}H_{20}N_4O_6$)	0.0400
Sodium Chloride (NaCl)	7599.0000
Sodium Phosphate Dibasic, Anhydrous (Na_2HPO_4)	142.0000
Thiamine, Hydrochloride ($C_{12}H_{17}ClN_4OS . HCl$)	0.3000
Thymidine ($C_{10}H_{14}N_2O_5$)	0.7000
Zinc Sulfate, Heptahydrate ($ZnSO_4 . 7H_2O$)	0.8600

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