

Ham's F-12 Medium w/ L-Glutamine

12-615



Description	CAS #	Chemical Formula	Concentration		Molarity	
			g/L	mg/L	mM	uM
Calcium Chloride Anhydrous	10043-52-4	CaCl ₂	3.330E-02	33.300	0.300	300.027
Cupric Sulfate Pentahydrate	7758-99-8	CuSO ₄ • 5H ₂ O	2.500E-06	2.500E-03	1.001E-05	0.010
Dextrose	50-99-7	C ₆ H ₁₂ O ₆	1.802	1.802E+03	10.000	1.000E+04
Ferrous Sulfate Heptahydrate	7782-63-0	FeSO ₄ • 7H ₂ O	8.300E-04	0.830	2.986E-03	2.986
Potassium Chloride	7447-40-7	KCl	0.224	223.650	3.000	3.000E+03
Sodium Bicarbonate	144-55-8	NaHCO ₃	1.176	1.176E+03	13.998	1.400E+04
Sodium Chloride	7647-14-5	NaCl	7.599	7.599E+03	130.031	1.300E+05
Sodium Phosphate, Dibasic Anhydrous	7558-79-4	Na ₂ HPO ₄	0.142	142.020	1.000	1.000E+03
Zinc Sulfate Heptahydrate	7446-20-0	ZnSO ₄ • 7H ₂ O	8.600E-04	0.860	2.991E-03	2.991
L-Alanine	56-41-7	HO ₂ CCH(NH ₂)CH ₃	8.910E-03	8.910	0.100	100.011
L-Arginine Monohydrochloride	1119-34-2	C ₆ H ₁₄ N ₄ O ₂ • HCl	0.211	210.700	1.000	1.000E+03
L-Asparagine Monohydrate	5794-13-8	NH ₂ COCH ₂ CH(NH ₂)COOH • H ₂ O	1.501E-02	15.010	9.998E-02	99.980
L-Aspartic Acid	56-84-8	HO ₂ CCH(NH ₂)CH ₂ CO ₂ H	1.331E-02	13.310	0.100	100.000
L-Cysteine Monohydrochloride Monohydrate	7048-04-6	C ₃ H ₇ NO ₂ S • HCl • H ₂ O	3.512E-02	35.120	0.200	200.000
L-Glutamic Acid	56-86-0	C ₅ H ₉ NO ₄	1.471E-02	14.710	0.100	100.000
L-Glutamine	56-85-9	C ₅ H ₁₀ N ₂ O ₃	0.146	146.200	1.000	1.000E+03
Glycine	56-40-6	HO ₂ CCH ₂ NH ₂	7.510E-03	7.510	0.100	100.040
L-Histidine Monohydrochloride Monohydrate	5934-29-2	C ₆ H ₉ N ₃ O ₂ • HCl • H ₂ O	2.096E-02	20.960	0.100	100.000
L-Isoleucine	73-32-5	HO ₂ CCH(NH ₂)CH(CH ₃)CH ₂ CH ₃	3.940E-03	3.940	3.004E-02	30.037
L-Leucine	61-90-5	HO ₂ CCH(NH ₂)CH ₂ CH(CH ₃) ₂	1.312E-02	13.120	0.100	100.023
L-Lysine Monohydrochloride	657-27-2	C ₆ H ₁₄ N ₂ O ₂ • HCl	3.654E-02	36.540	0.200	200.055
L-Methionine	63-68-3	HO ₂ CCH(NH ₂)CH ₂ CH ₂ SCH ₃	4.480E-03	4.480	3.003E-02	30.027
L-Phenylalanine	63-91-2	HO ₂ CCH(NH ₂)CH ₂ C ₆ H ₅	4.960E-03	4.960	3.003E-02	30.026
L-Proline	147-85-3	C ₅ H ₉ NO ₂	3.453E-02	34.530	0.300	299.922
L-Serine	56-45-1	HO ₂ CCH(NH ₂)CH ₂ OH	1.051E-02	10.510	0.100	100.010
L-Threonine	72-19-5	HO ₂ CCH(NH ₂)CH(OH)CH ₃	1.191E-02	11.910	9.998E-02	99.983
L-Tryptophan	73-22-3	C ₁₁ H ₁₂ N ₂ O ₂	2.040E-03	2.040	9.989E-03	9.989
L-Valine	72-18-4	HO ₂ CCH(NH ₂)CH(CH ₃) ₂	1.171E-02	11.710	0.100	100.000
D-Biotin (Vitamin H)	58-85-5	C ₁₀ H ₁₆ N ₂ O ₃ S	7.000E-06	7.000E-03	2.865E-05	0.029
D-Calcium Pantothenate (Vitamin B5)	137-08-6	C ₁₈ H ₃₂ CaN ₂ O ₁₀	2.400E-04	0.240	5.036E-04	0.504
Choline Chloride	67-48-1	HOCH ₂ CH ₂ N(CH ₃) ₃ Cl	1.396E-02	13.960	9.998E-02	99.979
Cyanocobalamin (Vitamin B12)	68-19-9	C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P	1.360E-03	1.360	1.003E-03	1.003
Folic Acid	59-30-3	C ₁₉ H ₁₉ N ₇ O ₆	1.320E-03	1.320	2.990E-03	2.990
I-Inositol	87-89-8	C ₆ H ₁₂ O ₆	1.800E-02	18.000	9.989E-02	99.889
DL-α-lipoic acid (thioctic acid)	1077-28-7	C ₈ H ₁₄ O ₂ S ₂	2.100E-04	0.210	1.018E-03	1.018
Niacinamide (Nicotinamide)	98-92-0	C ₆ H ₆ N ₂ O	3.700E-05	3.700E-02	3.030E-04	0.303
Pyridoxine Monohydrochloride	58-56-0	C ₈ H ₁₁ NO ₃	6.200E-05	6.200E-02	3.016E-04	0.302
Riboflavin (Vitamin B2)	83-88-5	C ₁₇ H ₂₀ N ₄ O ₆	3.800E-05	3.800E-02	1.010E-04	0.101
Thiamine Monohydrochloride (Vitamin B1)	67-03-8	C ₁₂ H ₁₈ N ₄ O ₄ SCl ₂	3.400E-04	0.340	1.008E-03	1.008
Thymidine	50-89-5	C ₁₀ H ₁₄ N ₂ O ₅	7.300E-04	0.730	3.014E-03	3.014
Phenol Red	34487-61-1	C ₁₉ H ₁₄ O ₅ S	1.242E-03	1.242	3.300E-03	3.300
Pyruvic Acid Sodium Salt	113-24-6	CH ₃ COCO ₂ Na	0.110	110.000	1.000	999.636
Putrescine Dihydrochloride	333-93-7	NH ₂ (CH ₂) ₄ NH ₂ • 2HCl	1.600E-04	0.160	9.933E-04	0.993
L-Tyrosine Disodium Salt, Dihydrate	122666-78-9	C ₉ H ₉ NO ₃ Na ₂ • 2H ₂ O	7.842E-03	7.842	3.002E-02	30.024
Linoleic Acid Methyl Ester	112-63-0	C ₁₉ H ₃₄ O ₂	8.800E-05	8.800E-02	2.988E-04	0.299
Hypoxanthine Disodium Salt	N/A	C ₅ H ₂ N ₄ ONa ₂	5.460E-03	5.460	3.031E-02	30.315
Magnesium Chloride, Anhydrous	7786-30-3	MgCl ₂	5.719E-02	57.190	0.601	600.672