

HAM'S NUTRIENT MIXTURES	LIQUID		
	Ham's F-12/ DME High Glucose	Ham's F-12	Ham's F-12K (Kaighn's)
<i>Catalog Nos.</i>	9052	9058	9077
<i>Component</i>	<i>mg/L</i>	<i>mg/L</i>	<i>mg/L</i>
Sodium Chloride	7000	7600	7530
Potassium Chloride	312	224	285
Glucose (Dextrose)	3151	1802	1260
L-Alanine	4	9	18
L-Arginine HCl	147	211	422
L-Asparagine • H ₂ O	8	15	30
L-Aspartic Acid	7	13	27
L-Cysteine HCl • H ₂ O	18	35	70
L-Cystine 2HCl	31	—	—
L-Glutamic Acid	7	15	29
Glycine	19	8	15
L-Histidine HCl • H ₂ O	31	21	42
L-Isoleucine	54	4	8
L-Leucine	59	13	26
L-Lysine HCl	91	37	73
L-Methionine	17	4	9
L-Phenylalanine	35	5	10
L-Proline	17	35	69
L-Serine	26	11	21
L-Threonine	54	12	24
L-Tryptophan	9	2	4
L-Tyrosine 2Na • 2H ₂ O	56	8	16
L-Valine	53	12	23
Folic Acid	2.7	1	1
Inositol	13	18	18
Nicotinic Acid Amide	2.02	0.04	0.04
Phenol Red, Na salt	8.12	1.24	3.12
Riboflavin	0.22	0.04	0.04
Thiamine HCl	2.17	0.34	0.34
Hypoxanthine, 2 Na salt	2.7	5.4	5.4
Vitamin B-12	0.7	1.4	1.4
Pantothenic Acid, Ca salt	2.12	0.24	0.48
Pyruvic Acid, Na salt	55	110	220
Pyridoxine HCl	2.031	0.062	0.062
Thioctic Acid, D-L	0.103	0.206	0.206
Putrescine 2HCl	0.080	0.161	0.322
Thymidine	0.4	0.7	0.7
Cupric Sulfate CuSO ₄ •5H ₂ O	0.001	0.002	0.002
Ferric Nitrate Fe(NO ₃) ₃ •9H ₂ O	0.05	—	—
Ferrous Sulfate FeSO ₄ •7H ₂ O	0.4	0.8	0.8
Zinc Sulfate ZnSO ₄ •7H ₂ O	0.431	0.863	0.144
d-Biotin	0.004	0.007	0.07
Sodium Phosphate, dibasic Na ₂ HPO ₄ anhyd.	71	142	115
Sodium Phosphate, monobasic NaH ₂ PO ₄ • H ₂ O	62	—	—
Potassium Phosphate, monobasic KH ₂ PO ₄	—	—	59
Calcium Chloride, anhyd.	116	33.3	102
Magnesium Chloride, anhyd. MgCl ₂	28.57	57.14	49.52
Magnesium Sulfate, anhyd. MgSO ₄	48.84	—	192.61
Choline Chloride	9	14	14
Sodium Bicarbonate	1200	1176	2500
Add: L-Glutamine (200 mM)	12.5 mL/L	5 mL/L	10 mL/L