HyClone classical media

CELL CULTURE

Ham's Nutrient Mixture F12
Liquid media

	Code number SH30026, SH30312		Code number SH30526 Kaighn's	
Component description	**mg/L**	**mmol/L**	**mg/L**	**mmol/L**
Inorganic salts				
Calcium chloride (anhydrous)	33.22	0.2993	102	0.9191
Copper sulfate-5$H_2$0	0.0025	0.00001	0	0
Ferrous sulfate-7$H_2$0	0.83	0.003	0.83	0.003
Potassium chloride	223.65	3	285	3.8229
Potassium phosphate monobasic (anhydrous)	0	0	59	0.4335
Magnesium chloride	57.22	0.601	49.7	0.522
Magnesium sulfate (anhydrous)	0	0	192	1.5947
Sodium chloride	7599	130.0308	7530	128.8501
Sodium phosphate dibasic (anhydrous)	142.04	1.0006	115.5	0.8136
Zinc sulfate-7$H_2$0	0.86	0.003	0.14	0.0005
Amino acids				
L-Alanine	8.91	0.1	18	0.202
L-Arginine-HCl	210.7	1.0002	422	2.0032
L-Asparagine-$H_2$0	15.01	0.1	30	0.1998
L-Aspartic acid	13.3	0.0999	26.6	0.1998
L-Cysteine-HCl-$H_2$0	35.12	0.2	70	0.3985
L-Glutamic acid	14.7	0.0999	29	0.1971
L-Glutamine	146.2	1.0003	292	1.9979
Glycine	7.51	0.1	15	0.1998
L-Histidine-HCl-$H_2$0	20.96	0.1	45.8	0.2185
L-Isoleucine	3.94	0.03	7.88	0.0601
L-Leucine	13.12	0.1	26.2	0.1997
L-Lysine-HCl	36.54	0.2001	73	0.3997
L-Methionine	4.48	0.03	8.96	0.06
L-Phenylalanine	4.96	0.03	9.92	0.0601
L-Proline	34.53	0.2999	69	0.5993
L-Serine	10.51	0.1	21	0.1998
L-Threonine	11.91	0.1	23	0.1931
L-Tryptophan	2.04	0.01	4.1	0.0201
L-Tyrosine-2Na-2$H_2$0	7.78	0.0298	13.5	0.0517
L-Valine	11.71	0.1	23	0.1963

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	mg/L	mmol/L	mg/L	mmol/L
Vitamins				
D-Biotin	0.00733	0.00003	0.0733	0.0003
Calcium D-pantothenate	0.24	0.0005	0.5	0.001
Choline chloride	13.96	0.1	14	0.1003
Folic acid	1.3	0.0029	1.3	0.0029
Hypoxanthine-2Na	5.4	0.03	4	0.0222
Myo-inositol	18.02	0.1	18	0.0999
Niacinamide	0.04	0.0003	0.03	0.0003
Pyridoxine-HCl	0.06	0.0003	0.06	0.0003
Riboflavin	0.04	0.0001	0.04	0.0001
Thiamine-HCl	0.34	0.001	0.33	0.0001
Thymidine	0.73	0.003	0.72	0.003
Vitamin B12	1.357	0.001	1.4	0.001
DL-α-Lipoic acid	0.21	0.001	0.21	0.001
Linoleic acid	0.09	0.0003	0	0
Other				
D-Glucose	1801.6	10	1260	6.9938
Phenol red-Na	1.3	0.0035	3	0.008
Sodium pyruvate	110	0.9996	220	1.9993
Putrescine-2HCl	0.16	0.001	0.32	0.002
Sodium bicarbonate (USP* tested)	1176	13.9983	2500	29.7584

* United States Pharmacopeia

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