



HyClone™ classical media

Ham's Nutrient Mixture F12

Dry powdered media

Component description	Code number SH30010		Code number SH30056		Code number SH30305	
	mg/L	mmol/L	mg/L	mmol/L	mg/L	mmol/L
Inorganic salts						
Calcium chloride (anhydrous)	33.22	0.2993	33.22	0.2993	33.22	0.2993
Copper sulfate-5H ₂ O	0.0025	0.00001	0.0025	0.00001	0.0025	0.00001
Ferrous sulfate-7H ₂ O	0.83	0.003	0.83	0.003	0.83	0.003
Potassium chloride	223.65	3	223.65	3	223.65	3
Potassium phosphate monobasic (anhydrous)	0	0	0	0	0	0
Magnesium chloride	57.22	0.601	57.22	0.601	57.22	0.601
Magnesium sulfate (anhydrous)	0	0	0	0	0	0
Sodium chloride	7599	130.0308	7599	130.0308	7599	130.0308
Sodium phosphate dibasic (anhydrous)	142.04	1.0006	142.04	1.0006	142.04	1.0006
Zinc sulfate-7H ₂ O	0.86	0.003	0.86	0.003	0.86	0.003
Amino acids						
L-Alanine	8.91	0.1	8.91	0.1	8.91	0.1
L-Arginine-HCl	210.7	1.0002	210.7	1.0002	210.7	1.0002
L-Asparagine-H ₂ O	15.01	0.1	15.01	0.1	15.01	0.1
L-Aspartic acid	13.3	0.0999	13.3	0.0999	13.3	0.0999
L-Cysteine-HCl-H ₂ O	35.12	0.2	35.12	0.2	35.12	0.2
L-Glutamic acid	14.7	0.0999	14.7	0.0999	14.7	0.0999
L-Glutamine	146.2	1.0003	0	0	146.2	1.0003
Glycine	7.51	0.1	7.51	0.1	7.51	0.1
L-Histidine-HCl-H ₂ O	20.96	0.1	20.96	0.1	20.96	0.1
L-Isoleucine	3.94	0.03	3.94	0.03	3.94	0.03
L-Leucine	13.12	0.1	13.12	0.1	13.12	0.1
L-Lysine-HCl	36.54	0.2001	36.54	0.2001	36.54	0.2001
L-Methionine	4.48	0.03	4.48	0.03	4.48	0.03
L-Phenylalanine	4.96	0.03	4.96	0.03	4.96	0.03
L-Proline	34.53	0.2999	34.53	0.2999	34.53	0.2999
L-Serine	10.51	0.1	10.51	0.1	10.51	0.1
L-Threonine	11.91	0.1	11.91	0.1	11.91	0.1
L-Tryptophan	2.04	0.01	2.04	0.01	2.04	0.01
L-Tyrosine-2Na-2H ₂ O	7.78	0.0298	7.78	0.0298	7.78	0.0298
L-Valine	11.71	0.1	11.71	0.1	11.71	0.1
Vitamins						
D-Biotin	0.00733	0.00003	0.00733	0.00003	0.00733	0.00003
Calcium D-pantothenate	0.24	0.0005	0.24	0.0005	0.24	0.0005
Choline chloride	13.96	0.1	13.96	0.1	13.96	0.1
Folic acid	1.3	0.0029	1.3	0.0029	1.3	0.0029
Hypoxanthine-2Na	5.4	0.03	5.4	0.03	5.4	0.03
Myo-inositol	18.02	0.1	18.02	0.1	18.02	0.1
Niacinamide	0.04	0.0003	0.04	0.0003	0.04	0.0003
Pyridoxine-HCl	0.06	0.0003	0.06	0.0003	0.06	0.0003
Riboflavin	0.04	0.0001	0.04	0.0001	0.04	0.0001
Thiamine-HCl	0.34	0.001	0.34	0.001	0.34	0.001
Thymidine	0.73	0.003	0.73	0.003	0.73	0.003
Vitamin B12	1.357	0.001	1.357	0.001	1.357	0.001
DL- α -Lipoic acid	0.21	0.001	0.21	0.001	0.21	0.001
Linoleic acid	0.09	0.0003	0.09	0.0003	0.09	0.0003
Other						
D-Glucose	1801.6	10	1801.6	10	1801.6	10
Phenol red-Na	1.3	0.0035	1.3	0.0035	1.3	0.0035
Sodium pyruvate	110	0.9996	110	0.9996	110	0.9996
Putrescine-2HCl	0.16	0.001	0.16	0.001	0.16	0.001
Sodium bicarbonate (USP* tested)	Add 1176	Add 13.9983	Add 1176	Add 13.9983	Add 1176	Add 13.9983

* United States Pharmacopeia

GE Healthcare Bio-Sciences AB
Björkgatan 30
751 84 Uppsala
Sweden
www.gelifesciences.com/hyclone

GE and GE monogram are trademarks of General Electric Company.
HyClone is a trademark of General Electric Company or one of its subsidiaries.
© 2014 General Electric Company—All rights reserved. First published Oct. 2014
All goods and services are sold subject to the terms and conditions of sale of the company within GE Healthcare which supplies them. A copy of these terms and conditions is available on request. Contact your local GE Healthcare representative for the most current information.
GE Healthcare UK Limited, Amersham Place, Little Chalfont, Buckinghamshire, HP7 9NA, UK
GE Healthcare Europe, GmbH, Munzinger Strasse 5, D-79111 Freiburg, Germany
GE Healthcare Bio-Sciences Corp., 800 Centennial Avenue, P.O. Box 1327, Piscataway, NJ 08855-1327, USA
GE Healthcare Japan Corporation, Sanken Bldg., 3-25-1, Hyakunincho, Shinjuku-ku, Tokyo 169-0073, Japan
29-1321-04 AA 10/2014