

BioWhittaker™クラシック培地の組成

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DMEM: F-12

カタログ番号 Component	12-719 Liquid mg/L	BE04-687 Liquid mg/L	BE04-687/U1 Liquid mg/L
Inorganic Salts			
CaCl ₂ (anhyd.)	116.00	116.00	116.00
CuSO ₄ •5H ₂ O	0.0012	0.0012	0.0012
Fe(NO ₃) ₃ •9H ₂ O	0.05	0.05	0.05
FeSO ₄ •7H ₂ O	0.42	0.42	0.42
KCl	311.83	311.83	311.83
MgCl ₂ •6H ₂ O	61.00	61.00	61.00
MgSO ₄ •7H ₂ O	100.00	100.00	100.00
NaCl	6,999.50	6,999.50	6,999.50
NaHCO ₃	1,200.00	1,200.00	1,200.00
Na ₂ H ₂ PO ₄ •7H ₂ O	134.00	134.00	134.00
NaH ₂ PO ₄ •H ₂ O	62.50	62.50	62.50
ZnSO ₄ •7H ₂ O	0.43	0.43	0.43
Other Components			
Glucose	3,151.00	3,151.00	3,151.00
HEPES	3,574.50		
Hypoxanthine	2.04	2.04	2.04
Linoleic Acid	0.04	0.04	0.04
Lipoic Acid	0.10	0.103	0.103
Phenol Red•Na	8.00	8.00	8.00
Putrescine•2HCl	0.08	0.08	0.08
Sodium Pyruvate	110.00	110.00	110.00
Thymidine	0.36	0.36	0.36
Amino Acids			
L-Alanine	4.46	4.46	4.46
L-Arginine•HCl	147.35	147.35	147.35
L-Asparagine•H ₂ O	7.50	7.50	7.50
L-Aspartic Acid	6.66	6.66	6.66
L-Cysteine•HCl•H ₂ O	17.56	17.56	17.56
L-Cystine	24.00	24.00	24.00
L-Glutamic Acid	7.36	7.36	7.36
L-Glutamine	365.10	365.10	
L-Alanyl-L-Glutamine (UltraGlutamine 1)			868.00
Glycine	18.76	18.76	18.76
L-Histidine•HCl•H ₂ O	31.48	31.48	31.48
L-Isoleucine	54.37	54.37	54.37
L-Leucine	58.96	58.96	58.96
L-Lysine•HCl	91.37	91.37	91.37
L-Methionine	17.24	17.24	17.24
L-Phenylalanine	35.48	35.48	35.48
L-Proline	17.27	17.27	17.27
L-Serine	26.26	26.26	26.26
L-Threonine	53.56	53.56	53.56
L-Tryptophan	9.02	9.02	9.02
L-Tyrosine	38.72	38.72	38.72
L-Valine	52.66	52.66	52.66
Vitamins			
d-Biotin	0.004	0.004	0.004
D-Ca Pantothenate	2.12	2.12	2.12
Choline Chloride	8.98	8.98	8.98
Folic Acid	2.66	2.66	2.66
i-Inositol	12.51	12.50	12.50
Nicotinamide	2.02	2.02	2.02
Pyridoxine•HCl	2.03	2.03	2.03
Riboflavin	0.22	0.22	0.22
Thiamine•HCl	2.17	2.17	2.17
Vitamin B ₁₂	0.68	0.68	0.68

ハム培地 (F-12およびF-10)

カタログ番号 Component	Ham's F-12 12-615 Liquid mg/L	Ham's F-10 12-618 Liquid mg/L	Europe only Ham's F-10 BE02-014 Liquid mg/L
Inorganic Salts			
CaCl ₂ •2H ₂ O	44.11	44.10	44.10
CuSO ₄ •5H ₂ O	0.0025	0.0025	0.0025
FeSO ₄ •7H ₂ O	0.83	0.83	0.83
KCl	223.65	285.00	285.00
KH ₂ PO ₄		83.00	83.00
MgCl ₂ •6H ₂ O	122.00		
MgSO ₄ •7H ₂ O		152.80	152.80
NaCl	7,599.00	7,400.00	7,400.00
NaHCO ₃	1,176.00	1,200.00	1,200.00
Na ₂ HPO ₄ •7H ₂ O	268.10	290.00	290.00
ZnSO ₄ •7H ₂ O	0.86	0.29	0.29
Other Components			
Glucose	1,801.60	1,100.00	1,100.00
Hypoxanthine	4.08	4.08	4.08
Linoleic Acid	0.08		
Lipoic Acid	0.21	0.20	0.20
Phenol Red•Na	1.24	1.20	1.20
Putrescine•2HCl	0.16		
Sodium Pyruvate	110.00	110.00	110.00
Thymidine	0.73	0.73	
Amino Acids			
L-Alanine	8.91	8.91	8.91
L-Arginine•HCl	210.70	211.00	211.00
L-Asparagine•H ₂ O	15.01	15.00	15.00
L-Aspartic Acid	13.31	13.30	13.30
L-Cysteine•HCl•H ₂ O	35.12	35.13	35.13
L-Glutamic Acid	14.71	14.70	14.70
L-Glutamine	146.20	146.20	
L-Alanyl•L-Glutamine			446.00
Glycine	7.51	7.51	7.51
L-Histidine•HCl•H ₂ O	20.96	21.00	23.00
L-Isoleucine	3.94	2.60	2.60
L-Leucine	13.12	13.10	13.10
L-Lysine•HCl	36.54	29.30	29.30
L-Methionine	4.48	4.48	4.48
L-Phenylalanine	4.96	4.96	4.96
L-Proline	34.53	11.50	11.50
L-Serine	10.51	10.50	10.50
L-Threonine	11.91	3.57	3.57
L-Tryptophan	2.04	0.60	0.60
L-Tyrosine	5.44	1.81	1.81
L-Valine	11.71	3.50	3.50
Vitamins			
d-Biotin	0.007	0.024	0.024
D-Ca Pantothenate	0.24	0.72	0.72
Choline Chloride	13.96	0.70	0.70
Folic Acid	1.32	1.32	1.32
i-Inositol	18.00	0.54	0.54
Nicotinamide	0.037	0.620	0.62
Pyridoxine•HCl	0.062	0.210	0.21
Riboflavin	0.038	0.380	0.38
Thiamine•HCl	0.34	1.01	1.01
Vitamin B ₁₂	1.36	1.36	1.36



1. Ham, R.G. [1965] Proc. Natl. Acad. Sci. USA 53: 288 – 293.
2. Ham, R.G. [1963] Exp. Cell Res. 29:515 – 526.