

F-12K 培养基配方表

ZQ-599 配方明细表			
组分	分子量	浓度 (mg/L)	摩尔浓度 (mM)
氨基酸			
Glycine	75	15	0.2
L-Alanine	89	18	0.2022472
L-Arginine hydrochloride	211	422	2
L-Asparagine-H ₂ O	150	30	0.2
L-Aspartic acid	133	26.6	0.2
L-Cysteine hydrochloride-H ₂ O	176	70	0.3977273
L-Glutamic Acid	147	29	0.1972789
L-Glutamine	146	292	2
L-Histidine hydrochloride-H ₂ O	210	45.8	0.2180952
L-Isoleucine	131	7.88	0.0601527
L-Leucine	131	26.2	0.2
L-Lysine hydrochloride	183	73	0.3989071
L-Methionine	149	8.96	0.0601342
L-Phenylalanine	165	9.92	0.0601212
L-Proline	115	69	0.6
L-Serine	105	21	0.2
L-Threonine	119	23	0.1932773
L-Tryptophan	204	4.1	0.020098
L-Tyrosine disodium salt dihydrate	262	13.5	0.0515267
L-Valine	117	23	0.1965812
维生素			
Biotin	244	0.07	0.0002869

Choline chloride	140	14	0.1
D-Calcium pantothenate	477	0.5	0.0010482
Folic Acid	441	1.3	0.0029478
i-Inositol	180	18	0.1
Niacinamide	122	0.037	0.0003033
Pyridoxine hydrochloride	206	0.06	0.0002913
Riboflavin	376	0.04	0.0001064
Thiamine hydrochloride	337	0.3	0.0008902
Vitamin B12	1355	1.4	0.0010332
无机盐			
Calcium Chloride (CaCl ₂) (anhyd.)	111	102	0.9189189
Cupric sulfate (CuSO ₄ ·5H ₂ O)	250	0.002	0.000008
Ferric sulfate (FeSO ₄ ·7H ₂ O)	278	0.8	0.0028777
Magnesium Chloride (anhydrous)	95	49.7	0.5231579
Magnesium Sulfate (MgSO ₄) (anhyd.)	120	192	1.6
Potassium Chloride (KCl)	75	285	3.8
Sodium Bicarbonate (NaHCO ₃)	84	2500	29.761906
Sodium Chloride (NaCl)	58	7530	129.82759
Sodium Phosphate dibasic (Na ₂ HPO ₄) anhydrous	142	115.5	0.8133803
Sodium Phosphate monobasic (NaH ₂ PO ₄) anhydrous	139	59	0.4244604
Zinc sulfate (ZnSO ₄ ·7H ₂ O)	288	0.144	0.0005
其他组分			
D-Glucose (Dextrose)	180	1260	7
Hypoxanthine Na	159	4	0.0251572
Linoleic Acid	280		
Lipoic Acid	206	0.21	0.0010194
Phenol Red	376.4	3	0.0079702
Putrescine 2HCl	161	0.32	0.0019876

Sodium Pyruvate	110	220	2
Thymidine	242	0.7	0.0028926