

HITES Medium

ZQ-1309

Components	Molecular Weight	Concentration (mg/L)	mM
Amino Acids			
Glycine	75	10	0.13333334
L-Glutamine	146.15	292	2
L-Arginine	174	200	1.1494253
L-Asparagine	132	50	0.37878788
L-Aspartic acid	133	20	0.15037593
L-Cystine	240	50	0.20833333
L-Glutamic Acid	147	20	0.13605443
L-Histidine	155	15	0.09677419
L-Hydroxyproline	131	20	0.15267175
L-Isoleucine	131	50	0.3816794
L-Leucine	131	50	0.3816794
L-Lysine hydrochloride	183	40	0.21857923
L-Methionine	149	15	0.10067114
L-Phenylalanine	165	15	0.09090909
L-Proline	115	20	0.17391305
L-Serine	105	30	0.2857143
L-Threonine	119	20	0.16806723
L-Tryptophan	204	5	0.024509804
L-Tyrosine	181	20	0.110497236
L-Valine	117	20	0.17094018
Vitamins			
Biotin	244	0.2	0.000819672
Choline chloride	140	3	0.021428572

D-Calcium pantothenate	477	0.25	0.000524109
Folic Acid	441	1	0.002267574
Niacinamide	122	1	0.008196721
Para-Aminobenzoic Acid	137	1	0.00729927
Pyridoxine hydrochloride	206	1	0.004854369
Riboflavin	376	0.2	0.000531915
Thiamine hydrochloride	337	1	0.002967359
Vitamin B12	1355	0.005	3.69004E-06
i-Inositol	180	35	0.19444445
Inorganic Salts			
Calcium nitrate (Ca(NO ₃) ₂ 4H ₂ O)	236	100	0.42372882
Magnesium Sulfate (MgSO ₄ -7H ₂ O)	246	100	0.40650406
Potassium Chloride (KCl)	75	400	5.3333335
Sodium Bicarbonate (NaHCO ₃)	84	2000	23.809525
Sodium Chloride (NaCl)	58	6000	103.44827
Sodium Phosphate dibasic (Na ₂ HPO ₄) anhydrous	142	800	5.633803
Other Components			
Insulin		50	
Transferrin		100	
Hydrocortisone			0.0001
Sodium selenite			0.0003
β-estradiol			0.0001
Penicillin			100U/mL
Streptomycin			100ug/mL
D-Glucose (Dextrose)	180	2000	11.111111
Glutathione (reduced)	307	1	0.003257329
Phenol Red	376.4	5	0.013283741