

Components	Concentration (mg/L) mM	
Amino Acids		
Glycine	30	0.4
L-Arginine hydrochloride	84	0.398104
L-Cystine 2HCl	63	0.201278
L-Glutamine	584	4
L-Histidine hydrochloride-H2O	42	0.2
L-Isoleucine	105	0.801527
L-Leucine	105	0.801527
L-Lysine hydrochloride	146	0.797814
L-Methionine	30	0.201342
L-Phenylalanine	66	0.4
L-Serine	42	0.4
L-Threonine	95	0.798319
L-Tryptophan	16	0.078431
L-Tyrosine disodium salt dihydrate	104	0.398467
L-Valine	94	0.803419
Vitamins		
Choline chloride	4	0.028571
D-Calcium pantothenate	4	0.008386
Folic Acid	4	0.009070
Niacinamide	4	0.032787
Pyridoxine hydrochloride	4	0.019417
Riboflavin	0.4	0.001064
Thiamine hydrochloride	4	0.011869
i-Inositol	7.2	0.04
Inorganic Salts		
Calcium Chloride (CaCl2) (anhyd.)	200	1.801802
Ferric Nitrate (Fe(NO3)3*9H2O)	0.1	0.000248
Magnesium Sulfate (MgSO4) (anhyd.)	97.67	0.813917
Potassium Chloride (KCl)	400	5.333334
Sodium Bicarbonate (NaHCO3)	3700	44.047620
Sodium Chloride (NaCl)	6400	110.344826
Sodium Phosphate monobasic (NaH2PO4*H2O)	125	0.905797
Other Components		
D-Glucose (Dextrose)	4500	25
Phenol Red	15	0.039851
Sodium Pyruvate	110	1

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Ferric Nitrate (Fe(NO ₃) ₃ ·9H ₂ O)	0.1	0.000248
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Sodium Bicarbonate (NaHCO ₃)	3700	44.047620
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L-Valine	94	0.803419
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Folic Acid	4	0.009070
Niacinamide	4	0.032787
Pyridoxine hydrochloride	4	0.019608
Riboflavin	0.4	0.001064
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Inorganic Salts		
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Sodium Chloride (NaCl)	6400	110.344826
Sodium Phosphate monobasic (NaH ₂ PO ₄ ·H ₂ O)	125	0.905797
Other Components		
D-Glucose (Dextrose)	1000	5.555555
Phenol Red	15	0.039851
Sodium Pyruvate	110	1

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Amino Acids		
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L-Arginine hydrochloride	84	0.398104
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L-Phenylalanine	66	0.4
L-Serine	42	0.4
L-Threonine	95	0.798319
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Sodium Phosphate monobasic (NaH ₂ PO ₄ ·H ₂ O)	125	0.905797
Other Components		
D-Glucose (Dextrose)	1000	5.555555
Sodium Pyruvate	110	1

Components	(mg/L)	mM
Amino Acids		
Glycine	50	0.666667
L-Alanine	25	0.280899
L-Arginine hydrochloride	105	0.497630
L-Asparagine-H2O	50	0.333333
L-Aspartic acid	30	0.225564
L-Cysteine hydrochloride-H2O	100	0.568182
L-Cystine 2HCl	31	0.099042
L-Glutamic Acid	75	0.510204
L-Glutamine	292	2
L-Histidine	31	0.2
L-Isoleucine	52.4	0.4
L-Leucine	52	0.396947
L-Lysine	73	0.398907
L-Methionine	15	0.100671
L-Phenylalanine	32	0.193939
L-Proline	40	0.347826
L-Serine	25	0.238095
L-Threonine	48	0.403361
L-Tryptophan	10	0.049020
L-Tyrosine disodium salt	52	0.231111
L-Valine	46	0.393162
Vitamins		
Ascorbic Acid	50	0.284091
Biotin	0.1	0.000410
Choline chloride	1	0.007143
D-Calcium pantothenate	1	0.002096
Folic Acid	1	0.002268
Niacinamide	1	0.008197
Pyridoxal hydrochloride	1	0.004902
Riboflavin	0.1	0.000266
Thiamine hydrochloride	1	0.002967
Vitamin B12	1.36	0.001004
i-Inositol	2	0.011111
Inorganic Salts		
Calcium Chloride (CaCl2) (anhyd.)	200	1.801802
Magnesium Sulfate (MgSO4) (anhyd.)	97.67	0.813917
Potassium Chloride (KCl)	400	5.333334
Sodium Bicarbonate (NaHCO3)	2200	26.190475
Sodium Chloride (NaCl)	6800	117.241380
Sodium Phosphate monobasic (NaH2PO4 H2O)	140	1.014493
Ribonucleosides		
Adenosine	10	0.037453
Cytidine	10	0.041152
Guanosine	10	0.035336
Uridine	10	0.040984

Deoxyribonucleosides		
2'Deoxyadenosine	10	0.039841
2'Deoxycytidine HCl	11	0.041667
2'Deoxyguanosine	10	0.037453
Thymidine	10	0.041322
Other Components		
D-Glucose (Dextrose)	1000	5.555555
Lipoic Acid	0.2	0.000971
Phenol Red	10	0.026567
Sodium Pyruvate	110	1

Components	(mg/L)	mM
Amino Acids		
Glycine	50	0.666667
L-Alanine	25	0.280899
L-Arginine hydrochloride	105	0.497630
L-Asparagine-H2O	50	0.333333
L-Aspartic acid	30	0.225564
L-Cysteine hydrochloride-H2O	100	0.568182
L-Cystine 2HCl	31	0.099042
L-Glutamic Acid	75	0.510204
L-Glutamine	292	2
L-Histidine	31	0.2
L-Isoleucine	52.4	0.4
L-Leucine	52	0.396947
L-Lysine	73	0.398907
L-Methionine	15	0.100671
L-Phenylalanine	32	0.193939
L-Proline	40	0.347826
L-Serine	25	0.238095
L-Threonine	48	0.403361
L-Tryptophan	10	0.049020
L-Tyrosine disodium salt	52	0.231111
L-Valine	46	0.393162
Vitamins		
Ascorbic Acid	50	0.284091
Biotin	0.1	0.000410
Choline chloride	1	0.007143
D-Calcium pantothenate	1	0.002096
Folic Acid	1	0.002268
Niacinamide	1	0.008197
Pyridoxal hydrochloride	1	0.004902
Riboflavin	0.1	0.000266
Thiamine hydrochloride	1	0.002967
Vitamin B12	1.36	0.001004
i-Inositol	2	0.011111
Inorganic Salts		
Calcium Chloride (CaCl ₂) (anhyd.)	200	1.801802
Magnesium Sulfate (MgSO ₄) (anhyd.)	97.67	0.813917
Potassium Chloride (KCl)	400	5.333334
Sodium Bicarbonate (NaHCO ₃)	2200	26.190475
Sodium Chloride (NaCl)	6800	117.241380
Sodium Phosphate monobasic (NaH ₂ PO ₄ · H ₂ O)	140	1.014493
Ribonucleosides		
Adenosine	10	0.037453
Cytidine	10	0.041152
Guanosine	10	0.035336
Uridine	10	0.040984

Deoxyribonucleosides		
2'Deoxyadenosine	10	0.039841
2'Deoxycytidine HCl	11	0.041667
2'Deoxyguanosine	10	0.037453
Thymidine	10	0.041322
Other Components		
D-Glucose (Dextrose)	4500	25
Lipoic Acid	0.2	0.000971
Phenol Red	10	0.026567
Sodium Pyruvate	110	1

Components	(mg/L)	mM
Amino Acids		
Glycine	50	0.666667
L-Alanine	25	0.280899
L-Arginine	105	0.497630
L-Asparagine-H2O	50	0.333333
L-Aspartic acid	30	0.225564
L-Cysteine hydrochloride-H2O	100	0.568182
L-Cystine 2HCl	31	0.099042
L-Glutamic Acid	75	0.510204
L-Glutamine	292	2
L-Histidine	31	0.2
L-Isoleucine	52.4	0.4
L-Leucine	52	0.396947
L-Lysine	73	0.398907
L-Methionine	15	0.100671
L-Phenylalanine	32	0.193939
L-Proline	40	0.347826
L-Serine	25	0.238095
L-Threonine	48	0.403361
L-Tryptophan	10	0.049020
L-Tyrosine disodium salt	52	0.231111
L-Valine	46	0.393162
Vitamins		
Ascorbic Acid	50	0.284091
Biotin	0.1	0.000410
Choline chloride	1	0.007143
D-Calcium pantothenate	1	0.002096
Folic Acid	1	0.002268
Niacinamide	1	0.008197
Pyridoxal hydrochloride	1	0.004902
Riboflavin	0.1	0.000266
Thiamine hydrochloride	1	0.002967
Vitamin B12	1.36	0.001004
i-Inositol	2	0.011111
Inorganic Salts		
Calcium Chloride (CaCl2) (anhyd.)	200	1.801802
Magnesium Sulfate (MgSO4) (anhyd.)	97.67	0.813917
Potassium Chloride (KCl)	400	5.333334
Sodium Bicarbonate (NaHCO3)	2200	26.190475
Sodium Chloride (NaCl)	6800	117.241380
Sodium Phosphate monobasic (NaH2PO4 · H2O)	140	1.014493
Ribonucleosides		
Adenosine	10	0.037453
Cytidine	10	0.041152
Guanosine	10	0.035336
Uridine	10	0.040984

Deoxyribonucleosides		
2'Deoxyadenosine	10	0.039841
2'Deoxycytidine HCl	11	0.041667
2'Deoxyguanosine	10	0.037453
Thymidine	10	0.041322
Other Components		
D-Glucose (Dextrose)	1000	5.555555
Lipoic Acid	0.2	0.000971
Sodium Pyruvate	110	1

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Amino Acids		
Glycine	30	0.4
L-Alanine	25	0.280899
L-Arginine hydrochloride	84	0.398104
L-Asparagine (freebase)	25	0.189394
L-Aspartic acid	30	0.225564
L-Cystine 2HCl	91.4	0.292013
L-Glutamic Acid	75	0.510204
L-Glutamine	584	4
L-Histidine hydrochloride-H2O	42	0.2
L-Isoleucine	105	0.801527
L-Leucine	105	0.801527
L-Lysine hydrochloride	146	0.797814
L-Methionine	30	0.201342
L-Phenylalanine	66	0.4
L-Proline	40	0.347826
L-Serine	42	0.4
L-Threonine	95	0.798319
L-Tryptophan	16	0.078431
L-Tyrosine disodium salt	104	0.462222
L-Valine	94	0.803419
Vitamins		
Biotin	0.013	0.000053
Choline chloride	4	0.028571
D-Calcium pantothenate	4	0.008386
Folic Acid	4	0.009070
Niacinamide	4	0.032787
Pyridoxal hydrochloride	4	0.019608
Riboflavin	0.4	0.001064
Thiamine hydrochloride	4	0.011869
Vitamin B12	0.013	0.000010
i-Inositol	7.2	0.04
Inorganic Salts		
Calcium Chloride (CaCl2) (anhyd.)	165	1.486486
Magnesium Sulfate (MgSO4) (anhyd.)	97.67	0.813917
Potassium Chloride (KCl)	330	4.4
Potassium Nitrate (KNO3)	0.076	0.000752
Sodium Bicarbonate (NaHCO3)	3024	36
Sodium Chloride (NaCl)	4505	77.672420
Sodium Phosphate monobasic (NaH2PO4 H2O)	125	0.905797
Sodium Selenite (Na2SeO3-5H2O)	0.017	0.000098
Other Components		
D-Glucose (Dextrose)	4500	25
HEPES	5958	25.033613
Phenol Red	15	0.039851
Sodium Pyruvate	110	1

Components	(mg/L)	mM
Amino Acids		
Glycine	10	0.133333
L-Arginine	200	1.149425
L-Asparagine	50	0.378788
L-Aspartic acid	20	0.150376
L-Cystine 2HCl	65	0.207668
L-Glutamic Acid	20	0.136054
L-Glutamine	300	2.054795
L-Histidine	15	0.096774
L-Hydroxyproline	20	0.152672
L-Isoleucine	50	0.381679
L-Leucine	50	0.381679
L-Lysine hydrochloride	40	0.273973
L-Methionine	15	0.100671
L-Phenylalanine	15	0.090909
L-Proline	20	0.173913
L-Serine	30	0.285714
L-Threonine	20	0.168067
L-Tryptophan	5	0.024510
L-Tyrosine disodium salt dihydrate	29	0.111111
L-Valine	20	0.170940
Vitamins		
Biotin	0.2	0.000820
Choline chloride	3	0.021429
D-Calcium pantothenate	0.25	0.000524
Folic Acid	1	0.002268
Niacinamide	1	0.008197
Para-Aminobenzoic Acid	1	0.007299
Pyridoxine hydrochloride	1	0.004854
Riboflavin	0.2	0.000532
Thiamine hydrochloride	1	0.002967
Vitamin B12	0.005	0.000004
i-Inositol	35	0.194444
Inorganic Salts		
Calcium nitrate (Ca(NO3)2 4H2O)	100	0.423729
Magnesium Sulfate (MgSO4) (anhyd.)	48.84	0.407
Potassium Chloride (KCl)	400	5.333334
Sodium Bicarbonate (NaHCO3)	2000	23.809525
Sodium Chloride (NaCl)	5300	91.379310
Sodium Phosphate dibasic (Na2HPO4) anhydrous	800	5.633803
Other Components		
D-Glucose (Dextrose)	2000	11.111111
Glutathione (reduced)	1	0.003257
HEPES	5958	25.033613

Phenol Red	5	0.013284
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Components	(mg/L)	mM
Amino Acids		
Glycine	10	0.133333
L-Arginine	200	1.149425
L-Asparagine	50	0.378788
L-Aspartic acid	20	0.150376
L-Cystine 2HCl	65	0.207668
L-Glutamic Acid	20	0.136054
L-Glutamine	300	2.054795
L-Histidine	15	0.096774
L-Hydroxyproline	20	0.152672
L-Isoleucine	50	0.381679
L-Leucine	50	0.381679
L-Lysine hydrochloride	40	0.218579
L-Methionine	15	0.100671
L-Phenylalanine	15	0.090909
L-Proline	20	0.173913
L-Serine	30	0.285714
L-Threonine	20	0.168067
L-Tryptophan	5	0.024510
L-Tyrosine disodium salt dihydrate	29	0.111111
L-Valine	20	0.170940
Vitamins		
Biotin	0.2	0.000820
Choline chloride	3	0.021429
D-Calcium pantothenate	0.25	0.000524
Folic Acid	1	0.002268
Niacinamide	1	0.008197
Para-Aminobenzoic Acid	1	0.007299
Pyridoxine hydrochloride	1	0.004854
Riboflavin	0.2	0.000532
Thiamine hydrochloride	1	0.002967
Vitamin B12	0.005	0.000004
i-Inositol	35	0.194444
Inorganic Salts		
Calcium nitrate (Ca(NO3)2 4H2O)	100	0.423729
Magnesium Sulfate (MgSO4) (anhyd.)	48.84	0.407
Potassium Chloride (KCl)	400	5.333334
Sodium Bicarbonate (NaHCO3)	2000	23.809525
Sodium Chloride (NaCl)	6000	103.44827
Sodium Phosphate dibasic (Na2HPO4) anhydrous	800	5.633803
Other Components		
D-Glucose (Dextrose)	2000	11.111111
Glutathione (reduced)	1	0.003257

Components	(mg/L)	mM
Amino Acids		
Glycine	10	0.133333
L-Arginine	200	1.149425
L-Asparagine	50	0.378788
L-Aspartic acid	20	0.150376
L-Cystine 2HCl	65	0.207668
L-Glutamic Acid	20	0.136054
L-Glutamine	300	2.054795
L-Histidine	15	0.096774
L-Hydroxyproline	20	0.152672
L-Isoleucine	50	0.381679
L-Leucine	50	0.381679
L-Lysine hydrochloride	40	0.218579
L-Methionine	15	0.100671
L-Phenylalanine	15	0.090909
L-Proline	20	0.173913
L-Serine	30	0.285714
L-Threonine	20	0.168067
L-Tryptophan	5	0.024510
L-Tyrosine disodium salt dihydrate	29	0.111111
L-Valine	20	0.170940
Vitamins		
Biotin	0.2	0.000820
Choline chloride	3	0.021429
D-Calcium pantothenate	0.25	0.000524
Folic Acid	1	0.002268
Niacinamide	1	0.008197
Para-Aminobenzoic Acid	1	0.007299
Pyridoxine hydrochloride	1	0.004854
Riboflavin	0.2	0.000532
Thiamine hydrochloride	1	0.002967
Vitamin B12	0.005	0.000004
i-Inositol	35	0.194444
Inorganic Salts		
Calcium nitrate (Ca(NO3)2 4H2O)	100	0.423729
Magnesium Sulfate (MgSO4) (anhyd.)	48.84	0.407
Potassium Chloride (KCl)	400	5.333334
Sodium Bicarbonate (NaHCO3)	1500	17.857143
Sodium Chloride (NaCl)	6000	103.448270
Sodium Phosphate dibasic (Na2HPO4) anhydrous	800	5.633803
Other Components		
D-Glucose (Dextrose)	4500	25
Glutathione (reduced)	1	0.003257
HEPES	2383	10.012605

Phenol Red	5	0.013284
Sodium Pyruvate	110	1

Components	(mg/L)	mM
Amino Acids		
Glycine	18.75	0.25
L-Alanine	4.45	0.050000
L-Arginine hydrochloride	147.5	0.699052
L-Asparagine-H2O	7.5	0.05
L-Aspartic acid	6.65	0.05
L-Cysteine hydrochloride-H2O	17.56	0.099773
L-Cystine 2HCl	31.29	0.099968
L-Glutamic Acid	7.35	0.05
L-Glutamine	365	2.5
L-Histidine hydrochloride-H2O	31.48	0.149905
L-Isoleucine	54.47	0.415802
L-Leucine	59.05	0.450763
L-Lysine hydrochloride	91.25	0.498634
L-Methionine	17.24	0.115705
L-Phenylalanine	35.48	0.215030
L-Proline	17.25	0.15
L-Serine	26.25	0.25
L-Threonine	53.45	0.449160
L-Tryptophan	9.02	0.044216
L-Tyrosine disodium salt dihydrate	55.79	0.213755
L-Valine	52.85	0.451709
Vitamins		
Biotin	0.0035	0.000014
Choline chloride	8.98	0.064143
D-Calcium pantothenate	2.24	0.004696
Folic Acid	2.65	0.006009
Niacinamide	2.02	0.016557
Pyridoxine hydrochloride	2	0.009709
Riboflavin	0.219	0.000582
Thiamine hydrochloride	2.17	0.006439
Vitamin B12	0.68	0.000502
i-Inositol	12.6	0.07
Inorganic Salts		
Calcium Chloride (CaCl2) (anhyd.)	116.6	1.050450
Cupric sulfate (CuSO4-5H2O)	0.0013	0.000005
Ferric Nitrate (Fe(NO3)3·9H2O)	0.05	0.000124
Ferrous Sulfate (FeSO4 7H2O)	0.417	0.0015
Magnesium Chloride (anhydrous)	28.64	0.301474
Magnesium Sulfate (MgSO4) (anhyd.)	48.84	0.407
Potassium Chloride (KCl)	311.8	4.157333
Sodium Bicarbonate (NaHCO3)	1200	14.285714
Sodium Chloride (NaCl)	6995.5	120.612070
Sodium Phosphate dibasic (Na2HPO4)	71.02	0.500141
Sodium Phosphate monobasic (NaH2PO4·H2O)	62.5	0.452899
Zinc sulfate (ZnSO4-7H2O)	0.432	0.0015

Other Components		
D-Glucose (Dextrose)	3151	17.505556
HEPES	3574.5	15.018908
Hypoxanthine Na	2.39	0.015031
Linoleic Acid	0.042	0.000150
Lipoic Acid	0.105	0.000510
Phenol Red	8.1	0.021520
Putrescine 2HCl	0.081	0.000503
Sodium Pyruvate	55	0.5
Thymidine	0.365	0.001508

Components	(mg/L)	mM
Amino Acids		
L-Arginine hydrochloride	126	0.597156
L-Cystine 2HCl	31	0.099042
L-Glutamine	292	2
L-Histidine hydrochloride-H2O	42	0.2
L-Isoleucine	52	0.396947
L-Leucine	52	0.396947
L-Lysine hydrochloride	73	0.398907
L-Methionine	15	0.100671
L-Phenylalanine	32	0.193939
L-Threonine	48	0.403361
L-Tryptophan	10	0.049020
L-Tyrosine disodium salt dihydrate	52	0.199234
L-Valine	46	0.393162
Vitamins		
Choline chloride	1	0.007143
D-Calcium pantothenate	1	0.002096
Folic Acid	1	0.002268
Niacinamide	1	0.008197
Pyridoxal hydrochloride	1	0.004902
Riboflavin	0.1	0.000266
Thiamine hydrochloride	1	0.002967
i-Inositol	2	0.011111
Inorganic Salts		
Calcium Chloride (CaCl ₂) (anhyd.)	200	1.801802
Magnesium Sulfate (MgSO ₄) (anhyd.)	97.67	0.813917
Potassium Chloride (KCl)	400	5.333334
Sodium Bicarbonate (NaHCO ₃)	2200	26.190475
Sodium Chloride (NaCl)	6800	117.241380
Sodium Phosphate monobasic (NaH ₂ PO ₄ ·H ₂ O)	140	1.014493
Other Components		
D-Glucose (Dextrose)	1000	5.555555
Phenol Red	10	0.026567

Components	(mg/L)	mM
Amino Acids		
Glycine	15	0.2
L-Alanine	18	0.202247
L-Arginine hydrochloride	422	2
L-Asparagine-H2O	30	0.2
L-Aspartic acid	26.6	0.2
L-Cysteine hydrochloride-H2O	70	0.397727
L-Glutamic Acid	29	0.197279
L-Glutamine	292	2
L-Histidine hydrochloride-H2O	45.8	0.218095
L-Isoleucine	7.88	0.060153
L-Leucine	26.2	0.2
L-Lysine hydrochloride	73	0.398907
L-Methionine	8.96	0.060134
L-Phenylalanine	9.92	0.060121
L-Proline	69	0.6
L-Serine	21	0.2
L-Threonine	23	0.193277
L-Tryptophan	4.1	0.020098
L-Tyrosine disodium salt dihydrate	13.5	0.051527
L-Valine	23	0.196581
Vitamins		
Biotin	0.07	0.000287
Choline chloride	14	0.1
D-Calcium pantothenate	0.5	0.001048
Folic Acid	1.3	0.002948
Niacinamide	0.037	0.000303
Pyridoxine hydrochloride	0.06	0.000291
Riboflavin	0.04	0.000106
Thiamine hydrochloride	0.3	0.000890
Vitamin B12	1.4	0.001033
i-Inositol	18	0.1
Inorganic Salts		
Calcium Chloride (CaCl2) (anhyd.)	102	0.918919
Cupric sulfate (CuSO4-5H2O)	0.002	0.000008
Ferric sulfate (FeSO4-7H2O)	0.8	0.002878
Magnesium Chloride (anhydrous)	49.7	0.523158
Magnesium Sulfate (MgSO4) (anhyd.)	192	1.6
Potassium Chloride (KCl)	285	3.8
Sodium Bicarbonate (NaHCO3)	2500	29.761906
Sodium Chloride (NaCl)	7530	129.827590
Sodium Phosphate dibasic (Na2HPO4) anhydrous	115.5	0.813380
Sodium Phosphate monobasic (NaH2PO4) anhydrous	59	0.424460
Zinc sulfate (ZnSO4-7H2O)	0.144	0.000500
Other Components		
D-Glucose (Dextrose)	1260	7

Hypoxanthine Na	4	0.030534
Lipoic Acid	0.21	0.001019
Phenol Red	3	0.007970
Putrescine 2HCl	0.32	0.001988
Sodium Pyruvate	220	2
Thymidine	0.7	0.002893

Components	(mg/L)	mM
Amino Acids		
Glycine	30	0.4
L-Arginine hydrochloride	84	0.398104
L-Cystine 2HCl	63	0.201278
L-Histidine hydrochloride-H2O	42	0.2
L-Isoleucine	105	0.801527
L-Leucine	105	0.801527
L-Lysine hydrochloride	146	0.797814
L-Methionine	30	0.201342
L-Phenylalanine	66	0.4
L-Serine	42	0.4
L-Threonine	95	0.798319
L-Tryptophan	16	0.078431
L-Tyrosine disodium salt dihydrate	104	0.398467
L-Valine	94	0.803419
Vitamins		
Choline chloride	4	0.028571
D-Calcium pantothenate	4	0.008386
Folic Acid	4	0.009070
Niacinamide	4	0.032787
Pyridoxine hydrochloride	4	0.019608
Riboflavin	0.4	0.001064
Thiamine hydrochloride	4	0.011869
i-Inositol	7.2	0.04
Inorganic Salts		
Calcium Chloride (CaCl2) (anhyd.)	200	1.801802
Ferric Nitrate (Fe(NO3)3·9H2O)	0.1	0.000248
Magnesium Sulfate (MgSO4) (anhyd.)	97.67	0.813917
Potassium Chloride (KCl)	400	5.333334
Sodium Chloride (NaCl)	6400	110.344826
Sodium Phosphate monobasic (NaH2PO4·H2O)	125	0.905797
Other Components		
D-Glucose (Dextrose)	1000	5.555555

Components	(mg/L)	mM
Amino Acids		
Glycine	30	0.4
L-Arginine hydrochloride	84	0.398104
L-Cystine 2HCl	63	0.201278
L-Glutamine	584	4
L-Histidine hydrochloride-H2O	42	0.2
L-Isoleucine	105	0.801527
L-Leucine	105	0.801527
L-Lysine hydrochloride	146	0.797814
L-Methionine	30	0.201342
L-Phenylalanine	66	0.4
L-Serine	42	0.4
L-Threonine	95	0.798319
L-Tryptophan	16	0.078431
L-Tyrosine disodium salt dihydrate	104	0.398467
L-Valine	94	0.803419
Vitamins		
Choline chloride	4	0.028571
D-Calcium pantothenate	4	0.008386
Folic Acid	4	0.009070
Niacinamide	4	0.032787
Pyridoxine hydrochloride	4	0.019608
Riboflavin	0.4	0.001064
Thiamine hydrochloride	4	0.011869
i-Inositol	7.2	0.04
Inorganic Salts		
Calcium Chloride (CaCl ₂) (anhyd.)	200	1.801802
Ferric Nitrate (Fe(NO ₃) ₃ ·9H ₂ O)	0.1	0.000248
Magnesium Sulfate (MgSO ₄) (anhyd.)	97.67	0.813917
Potassium Chloride (KCl)	400	5.333334
Sodium Chloride (NaCl)	6400	110.344826
Sodium Phosphate monobasic (NaH ₂ PO ₄ ·H ₂ O)	125	0.905797
Other Components		
D-Glucose (Dextrose)	4500	25
Phenol Red	15	0.039851

Components	(mg/L)	mM
Amino Acids		
Glycine	50	0.666667
L-Alanine	25	0.280899
L-Arginine	127	0.601896
L-Asparagine-H ₂ O	50	0.378788
L-Aspartic acid	30	0.225564
L-Cysteine hydrochloride-H ₂ O	100	0.568182
L-Cystine 2HCl	24	0.1
L-Glutamic Acid	75	0.510204
L-Glutamine	292	2
L-Histidine	42	0.200382
L-Isoleucine	52.4	0.4
L-Leucine	52.4	0.4
L-Lysine	72	0.394089
L-Methionine	15	0.100671
L-Phenylalanine	32	0.193939
L-Proline	40	0.347826
L-Serine	25	0.238095
L-Threonine	48	0.403361
L-Tryptophan	10	0.049020
L-Tyrosine disodium salt	52	0.199234
L-Valine	46	0.393162
Vitamins		
Ascorbic Acid	50	0.284091
Biotin	0.1	0.000410
Choline chloride	1	0.007143
D-Calcium pantothenate	1	0.002096
Folic Acid	1	0.002268
Niacinamide	1	0.008197
Pyridoxal hydrochloride	1	0.004902
Riboflavin	0.1	0.000266
Thiamine hydrochloride	1	0.002967
Vitamin B12	1.36	0.001004
i-Inositol	2	0.011111
Inorganic Salts		
Calcium Chloride (CaCl ₂) (anhyd.)	200	1.801802
Magnesium Sulfate (MgSO ₄) (anhyd.)	97.67	0.813917
Potassium Chloride (KCl)	400	5.333334
Sodium Chloride (NaCl)	6800	117.241380
Sodium Phosphate monobasic (NaH ₂ PO ₄ · H ₂ O)	140	1.014493
Other Components		
D-Glucose (Dextrose)	1000	5.555555
Lipoic Acid	0.2	0.000971
Phenol Red	10	0.026567

Sodium Pyruvate	110	1
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Components	(mg/L)	mM
Amino Acids		
Glycine	50	0.666667
L-Alanine	25	0.280899
L-Arginine hydrochloride	105	0.497630
L-Asparagine-H ₂ O	50	0.333333
L-Aspartic acid	30	0.225564
L-Cysteine hydrochloride-H ₂ O	100	0.568182
L-Cystine 2HCl	31	0.099042
L-Glutamic Acid	75	0.510204
L-Glutamine	292	2
L-Histidine	31	0.2
L-Isoleucine	52.4	0.4
L-Leucine	52	0.396947
L-Lysine	73	0.398907
L-Methionine	15	0.100671
L-Phenylalanine	32	0.193939
L-Proline	40	0.347826
L-Serine	25	0.238095
L-Threonine	48	0.403361
L-Tryptophan	10	0.049020
L-Tyrosine disodium salt	52	0.231111
L-Valine	46	0.393162
Vitamins		
Ascorbic Acid	50	0.284091
Biotin	0.1	0.000410
Choline chloride	1	0.007143
D-Calcium pantothenate	1	0.002096
Folic Acid	1	0.002268
Niacinamide	1	0.008197
Pyridoxal hydrochloride	1	0.004902
Riboflavin	0.1	0.000266
Thiamine hydrochloride	1	0.002967
Vitamin B12	1.36	0.001004
i-Inositol	2	0.011111
Inorganic Salts		
Calcium Chloride (CaCl ₂) (anhyd.)	200	1.801802
Magnesium Sulfate (MgSO ₄) (anhyd.)	97.67	0.813917
Potassium Chloride (KCl)	400	5.333334
Sodium Chloride (NaCl)	6800	117.241380
Sodium Phosphate monobasic (NaH ₂ PO ₄ · H ₂ O)	140	1.014493
Ribonucleosides		
Adenosine	10	0.037453
Cytidine	10	0.041152
Guanosine	10	0.035336
Uridine	10	0.040984
Deoxyribonucleosides		

2'Deoxyadenosine	10	0.039841
2'Deoxycytidine HCl	11	0.041667
2'Deoxyguanosine	10	0.037453
Thymidine	10	0.041322
Other Components		
D-Glucose (Dextrose)	1000	5.555555
Lipoic Acid	0.2	0.000971
Sodium Pyruvate	110	1

Components	(mg/L)	mM
Amino Acids		
Glycine	30	0.4
L-Alanine	25	0.280899
L-Arginine hydrochloride	84	0.398104
L-Asparagine (freebase)	25	0.189394
L-Aspartic acid	30	0.225564
L-Cystine 2HCl	91.4	0.292013
L-Glutamic Acid	75	0.510204
L-Glutamine	584	4
L-Histidine hydrochloride-H2O	42	0.2
L-Isoleucine	105	0.801527
L-Leucine	105	0.801527
L-Lysine hydrochloride	146	0.797814
L-Methionine	30	0.201342
L-Phenylalanine	66	0.4
L-Proline	40	0.347826
L-Serine	42	0.4
L-Threonine	95	0.798319
L-Tryptophan	16	0.078431
L-Tyrosine disodium salt	104	0.462222
L-Valine	94	0.803419
Vitamins		
Biotin	0.013	0.000053
Choline chloride	4	0.028571
D-Calcium pantothenate	4	0.008386
Folic Acid	4	0.009070
Niacinamide	4	0.032787
Pyridoxal hydrochloride	4	0.019608
Riboflavin	0.4	0.001064
Thiamine hydrochloride	4	0.011869
Vitamin B12	0.013	0.000010
i-Inositol	7.2	0.04
Inorganic Salts		
Calcium Chloride (CaCl2) (anhyd.)	165	1.486486
Magnesium Sulfate (MgSO4) (anhyd.)	97.67	0.813917
Potassium Chloride (KCl)	330	4.4
Potassium Nitrate (KNO3)	0.076	0.000752
Sodium Chloride (NaCl)	4505	77.672420
Sodium Phosphate monobasic (NaH2PO4 · H2O)	125	0.905797
Sodium Selenite (Na2SeO3·5H2O)	0.017	0.000098
Other Components		
D-Glucose (Dextrose)	4500	25
HEPES	5958	25.033613
Sodium Pyruvate	110	1

Components	(mg/L)	mM
Amino Acids		
Glycine	10	0.133333
L-Arginine	200	1.149425
L-Asparagine	50	0.378788
L-Aspartic acid	20	0.150376
L-Cystine 2HCl	65	0.207668
L-Glutamic Acid	20	0.136054
L-Glutamine	336	2.3
L-Histidine	15	0.096774
L-Hydroxyproline	20	0.152672
L-Isoleucine	50	0.381679
L-Leucine	50	0.381679
L-Lysine hydrochloride	40	0.273973
L-Methionine	15	0.100671
L-Phenylalanine	15	0.090909
L-Proline	20	0.173913
L-Serine	30	0.285714
L-Threonine	20	0.168067
L-Tryptophan	5	0.024510
L-Tyrosine disodium salt dihydrate	29	0.111111
L-Valine	20	0.170940
Vitamins		
Biotin	0.2	0.000820
Choline chloride	3	0.021429
D-Calcium pantothenate	0.25	0.000524
Folic Acid	1	0.002268
Niacinamide	1	0.008197
Para-Aminobenzoic Acid	1	0.007299
Pyridoxine hydrochloride	1	0.004854
Riboflavin	0.2	0.000532
Thiamine hydrochloride	1	0.002967
Vitamin B12	0.005	0.000004
i-Inositol	35	0.194444
Inorganic Salts		
Calcium nitrate (Ca(NO3)2 4H2O)	100	0.423729
Magnesium Sulfate (MgSO4) (anhyd.)	48.84	0.407
Potassium Chloride (KCl)	400	5.333334
Sodium Chloride (NaCl)	5300	91.37931
Sodium Phosphate dibasic (Na2HPO4) anhydrous	800	5.633803
Other Components		
D-Glucose (Dextrose)	2100	11.666667
Glutathione (reduced)	1	0.003257

Components	(mg/L)	mM
Amino Acids		
Glycine	10	0.133333
L-Arginine	200	1.149425
L-Asparagine	50	0.378788
L-Aspartic acid	20	0.150376
L-Cystine 2HCl	65	0.207668
L-Glutamic Acid	20	0.136054
L-Glutamine	300	2.054795
L-Histidine	15	0.096774
L-Hydroxyproline	20	0.152672
L-Isoleucine	50	0.381679
L-Leucine	50	0.381679
L-Lysine hydrochloride	40	0.273973
L-Methionine	15	0.100671
L-Phenylalanine	15	0.090909
L-Proline	20	0.173913
L-Serine	30	0.285714
L-Threonine	20	0.168067
L-Tryptophan	5	0.024510
L-Tyrosine disodium salt dihydrate	29	0.111111
L-Valine	20	0.170940
Vitamins		
Biotin	0.2	0.000820
Choline chloride	3	0.021429
D-Calcium pantothenate	0.25	0.000524
Folic Acid	1	0.002268
Niacinamide	1	0.008197
Para-Aminobenzoic Acid	1	0.007299
Pyridoxine hydrochloride	1	0.004854
Riboflavin	0.2	0.000532
Thiamine hydrochloride	1	0.002967
Vitamin B12	0.005	0.000004
i-Inositol	35	0.194444
Inorganic Salts		
Calcium nitrate (Ca(NO3)2 4H2O)	100	0.423729
Magnesium Sulfate (MgSO4) (anhyd.)	48.84	0.407
Potassium Chloride (KCl)	400	5.333334
Sodium Chloride (NaCl)	5300	91.37931
Sodium Phosphate dibasic (Na2HPO4) anhydrous	800	5.633803
Other Components		
D-Glucose (Dextrose)	2000	11.111111
Glutathione (reduced)	1	0.003257

Components	(mg/L)	mM
Amino Acids		
Glycine	18.75	0.25
L-Alanine	4.45	0.050000
L-Arginine hydrochloride	147.5	0.699052
L-Asparagine-H2O	7.5	0.05
L-Aspartic acid	6.65	0.05
L-Cysteine hydrochloride-H2O	17.56	0.099773
L-Cystine 2HCl	31.29	0.099968
L-Glutamic Acid	7.35	0.05
L-Glutamine	365	2.5
L-Histidine hydrochloride-H2O	31.48	0.149905
L-Isoleucine	54.47	0.415802
L-Leucine	59.05	0.450763
L-Lysine hydrochloride	91.25	0.498634
L-Methionine	17.24	0.115705
L-Phenylalanine	35.48	0.215030
L-Proline	17.25	0.15
L-Serine	26.25	0.25
L-Threonine	53.45	0.449160
L-Tryptophan	9.02	0.044216
L-Tyrosine disodium salt dihydrate	55.79	0.213755
L-Valine	52.85	0.451709
Vitamins		
Biotin	0.0035	0.000014
Choline chloride	8.98	0.064143
D-Calcium pantothenate	2.24	0.004696
Folic Acid	2.65	0.006009
Niacinamide	2.02	0.016557
Pyridoxine hydrochloride	2	0.009709
Riboflavin	0.219	0.000582
Thiamine hydrochloride	2.17	0.006439
Vitamin B12	0.68	0.000502
i-Inositol	12.6	0.07
Inorganic Salts		
Calcium Chloride (CaCl2) (anhyd.)	116.6	1.050450
Cupric sulfate (CuSO4-5H2O)	0.0013	0.000005
Ferric Nitrate (Fe(NO3)3·9H2O)	0.05	0.000124
Ferrous Sulfate (FeSO4 7H2O)	0.417	0.0015
Magnesium Chloride (anhydrous)	28.64	0.301474
Magnesium Sulfate (MgSO4) (anhyd.)	48.84	0.407
Potassium Chloride (KCl)	311.8	4.157333
Sodium Chloride (NaCl)	6995.5	120.612070
Sodium Phosphate dibasic (Na2HPO4) anhydrous	71.02	0.500141
Sodium Phosphate monobasic (NaH2PO4-H2O)	62.5	0.452899
Zinc sulfate (ZnSO4-7H2O)	0.432	0.0015
Other Components		

D-Glucose (Dextrose)	3151	17.505556
Hypoxanthine Na	2.39	0.015031
Linoleic Acid	0.042	0.000150
Lipoic Acid	0.105	0.000510
Putrescine 2HCl	0.081	0.000503
Sodium Pyruvate	55	0.5
Thymidine	0.365	0.001508

Components	(mg/L)	mM
Amino Acids		
Glycine	7.5	0.1
L-Alanine	8.9	0.100000
L-Arginine hydrochloride	126	0.597156
L-Asparagine-H ₂ O	15	0.113636
L-Aspartic acid	13.3	0.1
L-Cystine 2HCl	31.28	0.099936
L-Glutamic Acid	14.7	0.1
L-Glutamine	292	2
L-Histidine hydrochloride-H ₂ O	42	0.2
L-Isoleucine	52	0.396947
L-Leucine	52	0.396947
L-Lysine hydrochloride	72.5	0.396175
L-Methionine	15	0.100671
L-Phenylalanine	32	0.193939
L-Proline	11.5	0.1
L-Serine	10.5	0.1
L-Threonine	48	0.403361
L-Tryptophan	10	0.049020
L-Tyrosine disodium salt dihydrate	51.9	0.198851
L-Valine	46	0.393162
Vitamins		
Choline chloride	1	0.007143
D-Calcium pantothenate	1	0.002096
Folic Acid	1	0.002268
Niacinamide	1	0.008197
Pyridoxal hydrochloride	1	0.004902
Riboflavin	0.1	0.000266
Thiamine hydrochloride	1	0.002967
i-Inositol	2	0.011111
Inorganic Salts		
Calcium Chloride (CaCl ₂) (anhyd.)	200	1.801802
Magnesium Sulfate (MgSO ₄) (anhyd.)	97.67	0.813917
Potassium Chloride (KCl)	400	5.333334
Sodium Chloride (NaCl)	6800	117.241380
Sodium Phosphate monobasic (NaH ₂ PO ₄ · H ₂ O)	140	1.014493
Other Components		
D-Glucose (Dextrose)	1000	5.555555
Phenol Red	10	0.026567

Components	(mg/L)	mM
Amino Acids		
L-Arginine hydrochloride	126	0.597156
L-Cystine 2HCl	31	0.099042
L-Glutamine	292	2
L-Histidine hydrochloride-H2O	42	0.2
L-Isoleucine	52	0.396947
L-Leucine	52	0.396947
L-Lysine hydrochloride	73	0.398907
L-Methionine	15	0.100671
L-Phenylalanine	32	0.193939
L-Threonine	48	0.403361
L-Tryptophan	10	0.049020
L-Tyrosine disodium salt dihydrate	52	0.199234
L-Valine	46	0.393162
Vitamins		
Choline chloride	1	0.007143
D-Calcium pantothenate	1	0.002096
Folic Acid	1	0.002268
Niacinamide	1	0.008197
Pyridoxal hydrochloride	1	0.004902
Riboflavin	0.1	0.000266
Thiamine hydrochloride	1	0.002967
i-Inositol	2	0.011111
Inorganic Salts		
Calcium Chloride (CaCl ₂) (anhyd.)	200	1.801802
Magnesium Sulfate (MgSO ₄) (anhyd.)	97.67	0.813917
Potassium Chloride (KCl)	400	5.333334
Sodium Chloride (NaCl)	6800	117.241380
Sodium Phosphate monobasic (NaH ₂ PO ₄ ·H ₂ O)	140	1.014493
Other Components		
D-Glucose (Dextrose)	1000	5.555555

Components	(mg/L)	mM
Amino Acids		
Glycine	15	0.2
L-Alanine	18	0.202247
L-Arginine hydrochloride	422	2
L-Asparagine-H2O	30	0.2
L-Aspartic acid	26.6	0.2
L-Cysteine hydrochloride-H2O	70	0.397727
L-Glutamic Acid	29	0.197279
L-Glutamine	292	2
L-Histidine hydrochloride-H2O	45.8	0.218095
L-Isoleucine	7.88	0.060153
L-Leucine	26.2	0.2
L-Lysine hydrochloride	73	0.398907
L-Methionine	8.96	0.060134
L-Phenylalanine	9.92	0.060121
L-Proline	69	0.6
L-Serine	21	0.2
L-Threonine	23	0.1932773
L-Tryptophan	4.1	0.0200980
L-Tyrosine disodium salt dihydrate	13.5	0.0515267
L-Valine	23	0.1965812
Vitamins		
Biotin	0.07	0.000287
Choline chloride	14	0.1
D-Calcium pantothenate	0.5	0.001048
Folic Acid	1.3	0.002948
Niacinamide	0.037	0.000303
Pyridoxine hydrochloride	0.06	0.000291
Riboflavin	0.04	0.000106
Thiamine hydrochloride	0.3	0.000890
Vitamin B12	1.4	0.001033
i-Inositol	18	0.1
Inorganic Salts		
Calcium Chloride (CaCl2) (anhyd.)	102	0.918919
Cupric sulfate (CuSO4-5H2O)	0.002	0.000008
Ferric sulfate (FeSO4-7H2O)	0.8	0.002878
Magnesium Chloride (anhydrous)	49.7	0.523158
Magnesium Sulfate (MgSO4) (anhyd.)	192	1.6
Potassium Chloride (KCl)	285	3.8
Sodium Chloride (NaCl)	7530	129.827590
Sodium Phosphate dibasic (Na2HPO4) anhydrous	115.5	0.813380
Sodium Phosphate monobasic (NaH2PO4) anhydrous	59	0.424460
Zinc sulfate (ZnSO4-7H2O)	0.144	0.000500
Other Components		
D-Glucose (Dextrose)	1260	7
Hypoxanthine Na	4	0.030534

Lipoic Acid	0.21	0.001019
Putrescine 2HCl	0.32	0.001988
Sodium Pyruvate	220	2
Thymidine	0.7	0.002893

Components	(mg/L)
Amino Acids	
Glycine	50
L-Alanine	25
L-Arginine hydrochloride	70
L-Aspartic acid	30
L-Cysteine hydrochloride-H ₂ O	0.1
L-Cystine 2HCl	26
L-Glutamic Acid	66.8
L-Glutamine	100
L-Histidine hydrochloride-H ₂ O	21.88
L-Hydroxyproline	10
L-Isoleucine	20
L-Leucine	60
L-Lysine hydrochloride	70
L-Methionine	15
L-Phenylalanine	25
L-Proline	40
L-Serine	25
L-Threonine	30
L-Tryptophan	10
L-Tyrosine disodium salt dihydrate	58
L-Valine	25
Vitamins	
Ascorbic Acid	0.05
Biotin	0.01
Choline chloride	0.5
D-Calcium pantothenate	0.01
Folic Acid	0.01
Menadione (Vitamin K ₃)	0.01
Niacinamide	0.025
Nicotinic acid (Niacin)	0.025
Para-Aminobenzoic Acid	0.05
Pyridoxal hydrochloride	0.025
Pyridoxine hydrochloride	0.025
Riboflavin	0.01
Thiamine hydrochloride	0.01
Vitamin A (acetate)	0.14
Vitamin D ₂ (Calciferol)	0.1
alpha Tocopherol phos. Na salt	0.01
i-Inositol	0.05
Inorganic Salts	
Calcium Chloride (CaCl ₂) (anhyd.)	140
Ferric nitrate (Fe(NO ₃)-9H ₂ O)	0.72
Magnesium Sulfate (MgSO ₄) (anhyd.)	97.67
Potassium Chloride (KCl)	400
KH ₂ PO ₄	60

Sodium Chloride (NaCl)	6800
Sodium acetate anhydrous	50
Sodium Phosphate dibasic (Na ₂ HPO ₄) anhydrous	479
Other Components	
Adenine sulfate	10
Adenosine Monophosphate • Na	0.24
Adenosine Triphosphate • Zn ²⁺	1
Cholesterol	0.2
D-Glucose (Dextrose)	1000
Deoxyribose	0.5
Glutathione (reduced)	0.05
Guanine hydrochloride	0.3
Hypoxanthine Na	0.354
Phenol Red	20
Ribose	0.5
Thymine	0.3
Tween 80®	20
Uracil	0.3
Xanthine-Na	0.34