



## Formulation for DMEM:F-12 Medium ATCC® 30-2006

### Inorganic Salts (g/liter)

CaCl <sub>2</sub> (anhydrous)	0.11665
CuSO <sub>4</sub> (anhydrous)	0.0000008
Fe(NO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O	0.00005
FeSO <sub>4</sub> ·7H <sub>2</sub> O	0.000417
MgSO <sub>4</sub> (anhydrous)	0.08495
KCl	0.3118
NaHCO <sub>3</sub>	1.20000
NaCl	7.00000
Na <sub>2</sub> HPO <sub>4</sub> (anhydrous)	0.07100
NaH <sub>2</sub> PO <sub>4</sub> ·H <sub>2</sub> O	0.06250
ZnSO <sub>4</sub> ·7H <sub>2</sub> O	0.000432

### Amino Acids (g/liter)

L-Alanine	0.00445
L-Arginine·HCl	0.14750
L-Asparagine·H <sub>2</sub> O	0.00750
L-Aspartic Acid	0.00665
L-Cysteine·HCl·H <sub>2</sub> O	0.01756
L-Cystine·2HCl	0.03129
L-Glutamic Acid	0.00735
L-Glutamine	0.36510
Glycine	0.01875
L-Histidine·HCl·H <sub>2</sub> O	0.03148
L-Isoleucine	0.05437
L-Leucine	0.05895
L-Lysine·HCl	0.09135
L-Methionine	0.01724
L-Phenylalanine	0.03548
L-Proline	0.01725
L-Serine	0.02625
L-Threonine	0.05355
L-Tryptophan	0.00902
L-Tyrosine·2Na·2H <sub>2</sub> O	0.05582
L-Valine	0.05285

### Vitamins (g/liter)

D-Biotin	0.00000365
Choline Chloride	0.00898
Folic Acid	0.00265
myo-Inositol	0.01261
Niacinamide	0.00202
D-Pantothenic Acid (hemicalcium)	0.00224
Pyridoxine·HCl	0.00203
Riboflavin	0.00022
Thiamine·HCl	0.00217
Vitamin B-12	0.00068

### Other (g/liter)

D-Glucose	3.15100
HEPES	3.57480
Hypoxanthine	0.00239
Linoleic Acid	0.000044
Phenol Red, Sodium Salt	0.00810
Putrescine·2HCl	0.00008
Pyruvic Acid·Na	0.05500
DL-Thioctic Acid	0.000105
Thymidine	0.000365