

DMEM/F-12

Product Number DFL13-1000ML

With L-glutamine and 15 mM HEPES. Store at 2° to 8°C.

Components	mg/L
Biotin (C ₁₀ H ₁₆ N ₂ O ₃ S)	0.0035
Calcium Chloride, Anhydrous (CaCl ₂)	116.6000
Choline Chloride (C ₅ H ₁₄ ONCl)	8.9800
Cupric Sulfate, Pentahydrate (CuSO ₄ · 5H ₂ O)	0.0013
D-Calcium Pantothenate (C ₁₈ H ₃₂ CaN ₂ O ₁₀)	2.2400
D-Glucose, Anhydrous (C ₆ H ₁₂ O ₆)	3151.0000
Ferric Nitrate, Nonahydrate (Fe(NO ₃) ₃ ·9H ₂ O)	0.0500
Ferrous Sulfate, Heptahydrate (FeSO ₄ ·7H ₂ O)	0.4170
Folic Acid (C ₁₉ H ₁₉ N ₇ O ₆)	2.6500
Glycine (C ₂ H ₅ NO ₂)	18.7500
HEPES (C ₈ H ₁₈ N ₂ O ₄ S)	3574.5000
Hypoxanthine, Sodium (C ₅ H ₃ N ₄ O·Na)	2.3900
L-Alanine (C ₃ H ₇ NO ₂)	4.4500
L-Arginine, Hydrochloride (C ₆ H ₁₄ N ₄ O ₂ · HCl)	147.5000
L-Asparagine, Monohydrate (C ₄ H ₈ N ₂ O ₃ · H ₂ O)	7.5000
L-Aspartic Acid (C ₄ H ₇ NO ₄)	6.6500
L-Cysteine, Hydrochloride, Monohydrate (C ₃ H ₇ NO ₂ · HCl · H ₂ O)	17.5600
L-Cystine, Dihydrochloride (C ₆ H ₁₂ N ₂ O ₄ S ₂ · 2HCl)	31.2900
L-Glutamic Acid (C ₅ H ₉ NO ₄)	7.3500
L-Glutamine (C ₅ H ₁₀ N ₂ O ₃)	365.0000
L-Histidine, Hydrochloride, Monohydrate (C ₆ H ₉ N ₃ O ₂ · HCl · H ₂ O)	31.4800
L-Isoleucine (C ₆ H ₁₃ NO ₂)	54.4700
L-Leucine (C ₆ H ₁₃ NO ₂)	59.0500

L-Lysine, Hydrochloride (C ₆ H ₁₄ N ₂ O ₂ · HCl)	91.2500
L-Methionine (C ₅ H ₁₁ NO ₂ S)	17.2400
L-Phenylalanine (C ₉ H ₁₁ NO ₂)	35.4800
L-Proline (C ₅ H ₉ NO ₂)	17.2500
L-Serine (C ₃ H ₇ NO ₃)	26.2500
L-Threonine (C ₄ H ₉ NO ₃)	53.4500
L-Tryptophan (C ₁₁ H ₁₂ N ₂ O ₂)	9.0200
L-Tyrosine, Disodium, Dihydrate (C ₉ H ₉ NO ₃ Na ₂ ·2H ₂ O)	55.7900
L-Valine (C ₅ H ₁₁ NO ₂)	52.8500
Linoleic Acid (C ₁₈ H ₃₂ O ₂)	0.0420
Lipoic Acid (DL-Thiolic Acid) (C ₈ H ₁₄ O ₂ S ₂)	0.1050
Magnesium Chloride, Anhydrous (MgCl ₂)	28.6100
Magnesium Sulfate, Anhydrous (MgSO ₄)	48.9300
Myo-Inositol (C ₆ H ₁₂ O ₆)	12.6000
Niacinamide (C ₆ H ₆ N ₂ O)	2.0200
Phenol Red, Sodium Salt (C ₁₉ H ₁₃ NaO ₅ S)	8.1000
Potassium Chloride (KCl)	311.8000
Putrescine, Dihydrochloride (C ₄ H ₁₂ N ₂ ·2HCl)	0.0810
Pyridoxine, Hydrochloride (C ₈ H ₁₁ NO ₃ · HCl)	2.0310
Pyruvic Acid, Sodium Salt (C ₃ H ₃ NaO ₃)	55.0000
Riboflavin (C ₁₇ H ₂₀ N ₄ O ₆)	0.2190
Sodium Bicarbonate (NaHCO ₃)	1200.0000
Sodium Chloride (NaCl)	6995.5000
Sodium Phosphate Dibasic, Anhydrous (Na ₂ HPO ₄)	70.9600
Sodium Phosphate, Monobasic, Monohydrate (NaH ₂ PO ₄ · H ₂ O)	62.5000
Thiamine, Hydrochloride (C ₁₂ H ₁₇ ClN ₄ OS · HCl)	2.1700
Thymidine (C ₁₀ H ₁₄ N ₂ O ₅)	0.3650
Vitamin B12 (C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P)	0.6800
Zinc Sulfate, Heptahydrate (ZnSO ₄ · 7H ₂ O)	0.4320