

DMEM/Ham's F-12 50/50 Mix

Catalog No.	10-090 1X, Liquid DMEM/F12	10-092 1X, Liquid DMEM/F12	15-090 1X, Liquid DMEM/F12	16-405 1X, Liquid DMEM/F12	90-090 Powder DMEM/F12	90-091 Powder DMEM/F12
Inorganic Salts	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CaCl ₂ (anhydrous)	116.65	116.65	116.65	116.65	116.65	116.65
CuSO ₄ (anhydrous)	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Fe(NO ₃) ₃ • 9H ₂ O	0.05	0.05	0.05	0.05	0.05	0.05
FeSO ₄ • 7H ₂ O	0.417	0.417	0.417	0.417	0.417	0.417
KCl	311.80	311.80	311.80	311.80	311.80	311.80
MgSO ₄ (anhydrous)	84.95	84.95	84.95	84.95	84.95	84.95
NaCl	7000.00	7000.00	7000.00	7000.00	7000.00	7000.00
NaH ₂ PO ₄ • H ₂ O	62.50	62.50	62.50	62.50	62.50	62.50
Na ₂ HPO ₄ (anhydrous)	71.00	71.00	71.00	71.00	71.00	71.00
NaHCO ₃	2438.00	2438.00	2438.00	2438.00	--	--
ZnSO ₄ • 7H ₂ O	0.4315	0.4315	0.4315	0.4315	0.4315	0.4315
Amino Acids						
L-Alanine	4.45	4.45	4.45	4.45	4.45	4.45
L-Arginine • HCl	147.50	147.50	147.50	147.50	147.50	147.50
L-Asparagine • H ₂ O	7.50	7.50	7.50	7.50	7.50	7.50
L-Aspartic acid	6.65	6.65	6.65	6.65	6.65	6.65
L-Cysteine • HCl • H ₂ O	17.56	17.56	17.56	17.56	17.56	17.56
L-Cystine • 2HCl	31.285	31.285	31.285	31.285	31.285	31.285
L-Glutamic acid	7.35	7.35	7.35	7.35	7.35	7.35
L-Glutamine	365.10	365.10	--	365.10	--	--
Glycine	18.75	18.75	18.75	18.75	18.75	18.75
L-Histidine • HCl • H ₂ O	31.48	31.48	31.48	31.48	31.48	31.48
L-Isoleucine	54.37	54.37	54.37	54.37	54.37	54.37
L-Leucine	58.95	58.95	58.95	58.95	58.95	58.95
L-Lysine • HCl	91.35	91.35	91.35	91.35	91.35	91.35
L-Methionine	17.24	17.24	17.24	17.24	17.24	17.24
L-Phenylalanine	35.48	35.48	35.48	35.48	35.48	35.48
L-Proline	17.25	17.25	17.25	17.25	17.25	17.25
L-Serine	26.25	26.25	26.25	26.25	26.25	26.25
L-Threonine	53.55	53.55	53.55	53.55	53.55	53.55
L-Tryptophan	9.02	9.02	9.02	9.02	9.02	9.02
L-Tyrosine • 2Na • 2H ₂ O	55.815	55.815	55.815	55.815	55.815	55.815
L-Valine	52.85	52.85	52.85	52.85	52.85	52.85
Vitamins						
Biotin	0.00365	0.00365	0.00365	0.00365	0.00365	0.00365
D-Calcium pantothenate	2.24	2.24	2.24	2.24	2.24	2.24
Choline Chloride	8.98	8.98	8.98	8.98	8.98	8.98
Folic Acid	2.65	2.65	2.65	2.65	2.65	2.65
i-Inositol	12.61	12.61	12.61	12.61	12.61	12.61
Nicotinamide	2.0185	2.0185	2.0185	2.0185	2.0185	2.0185
Pyridoxine • HCl	2.031	2.031	2.031	2.031	2.031	2.031
Riboflavin	0.219	0.219	0.219	0.219	0.219	0.219
Thiamine • HCl	2.17	2.17	2.17	2.17	2.17	2.17
Vitamin B ₁₂	0.68	0.68	0.68	0.68	0.68	0.68

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Other	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
D-Glucose	3151.00	3151.00	3151.00	3151.00	3151.00	3151.00
HEPES	--	3574.80	--	--	--	--
Hypoxanthine, Na	2.385	2.385	2.385	2.385	2.385	2.385
Lipoic acid	0.105	0.105	0.105	0.105	0.105	0.105
Methyl lineoleate	0.044	0.044	0.044	0.044	0.044	0.044
Phenol red, Na	8.10	8.10	8.10	--	--	8.10
Putrescine • 2HCl	0.08	0.08	0.08	0.08	0.08	0.08
Sodium pyruvate	110.00	110.00	110.00	110.00	110.00	110.00
Thymidine	0.365	0.365	0.365	0.365	0.365	0.365
Add						
NaHCO ₃						
Powder (g/L)	--	--	--	--	2.438	2.438
7.5% Solution (mL/L)	--	--	--	--	32.50	32.50
L-Glutamine						
Powder (mg/L)	--	--	365.10	--	365.10	365.10
200 mM Solution (mL/L)	--	--	12.50	--	12.50	12.50
Specifications						
pH (before buffer)	--	--	--	--	6.5 ± 0.2	6.5 ± 0.2
pH (after buffer)	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.8 ± 0.2	7.8 ± 0.2
Osmolality (mOsm/kg)	310 ± 30	335 ± 30	310 ± 30	310 ± 30	315 ± 15	315 ± 15
Grams of powder required to prepare 1L (1X Solution)	--	--	--	--	11.69	11.70