

Dulbecco's Modification of Eagle's Medium (DMEM)/F-12 50/50 MIX
Formulation

Catalog no.	319-075 1X, Liquid DMEM/F12	319-080 1X, Liquid DMEM/F12	319-081 1X, Liquid DMEM/F12	319-085 1X, Liquid DMEM/F12	319-090 1X, Liquid DMEM/F12
Inorganic Salts	mg/L	mg/L	mg/L	mg/L	mg/L
CaCl ₂ (anhydrous)	116.65	116.65	116.65	116.65	116.65
CuSO ₄ (anhydrous)	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
FeSO ₄ ·7H ₂ O	0.417	0.417	0.417	0.417	0.417
KCl	311.80	311.80	311.80	311.80	311.80
MgSO ₄ (anhydrous)	84.95	84.95	84.95	84.95	84.95
NaCl	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
Na ₂ HPO ₄ (anhydrous)	71.00	71.00	71.00	71.00	71.00
NaHCO ₃	2438.00	2438.00	2438.00	2438.00	2438.00
ZnSO ₄ ·7H ₂ O	0.4315	0.4315	0.4315	0.4315	0.4315
Amino Acids					
L-Alanine	4.45	4.45	4.45	4.45	4.45
L-Arginine·HCl	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
L-Aspartic acid	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
L-Cystine·2HCl	31.285	31.285	31.285	31.285	31.285
L-Glutamic acid	7.35	7.35	7.35	7.35	7.35
L-Glutamine	365.10	365.10	365.10	365.10	----
Glycine	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
L-Isoleucine	54.37	54.37	54.37	54.37	54.37
L-Leucine	58.95	58.95	58.95	58.95	58.95
L-Lysine·HCl	91.35	91.35	91.35	91.35	91.35
L-Methionine	17.24	17.24	17.24	17.24	17.24
L-Phenylalanine	35.48	35.48	35.48	35.48	35.48
L-Proline	17.25	17.25	17.25	17.25	17.25
L-Serine	26.25	26.25	26.25	26.25	26.25
L-Threonine	53.55	53.55	53.55	53.55	53.55
L-Tryptophan	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
L-Valine	52.85	52.85	52.85	52.85	52.85

To order: (888)-947-3681 Fax: (450) 446-7038
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Formulation, Contd.

Catalog no.	319-075 1X, Liquid DMEM/F12	319-080 1X, Liquid DMEM/F12	319-081 1X, Liquid DMEM/F12	319-085 1X, Liquid DMEM/F12	319-090 1X, Liquid DMEM/F12
Vitamins	mg/L	mg/L	mg/L	mg/L	mg/L
Biotin	0.00365	0.00365	0.00365	0.00365	0.00365
D-Calcium pantothenate	2.24	2.24	2.24	2.24	2.24
Choline chloride	8.98	8.98	8.98	8.98	8.98
Folic acid	2.65	2.65	2.65	2.65	2.65
i-Inositol	12.61	12.61	12.61	12.61	12.61
Nicotinamide	2.0185	2.0185	2.0185	2.0185	2.0185
Pyridoxine·HCl	2.031	2.031	2.031	2.031	2.031
Riboflavin	0.219	0.219	0.219	0.219	0.219
Thiamine·HCl	2.17	2.17	2.17	2.17	2.17
Vitamin B ₁₂	0.68	0.68	0.68	0.68	0.68
Other					
D-Glucose	3151.00	3151.00	3151.00	3151.00	3151.00
HEPES	----	----	5958.00	3574.80	----
Hypoxanthine, Na	2.385	2.385	2.385	2.385	2.385
Lipoic acid	0.105	0.105	0.105	0.105	0.105
Methyl linoleate	0.044	0.044	0.044	0.044	0.044
Phenol red, Na	8.10	----	----	8.10	8.10
Putrescine·2HCl	0.08	0.08	0.08	0.08	0.08
Sodium pyruvate	110.00	110.00	110.00	110.00	110.00
Thymidine	0.365	0.365	0.365	0.365	0.365
Specifications					
pH (after buffer)	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2
Osmolality (mOsm/kg)	310 ± 30	310 ± 30	INFO	335 ± 30	310 ± 30

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Dulbecco's Modification of Eagle's Medium (DMEM)/F-12 50/50 MIX
Formulation

Catalog no.	219-000 powder DMEM/F12	219-001 powder DMEM/F12
Inorganic Salts	mg/L	mg/L
CaCl ₂ (anhydrous)	116.65	116.65
CuSO ₄ (anhydrous)	0.0008	0.0008
Fe(NO ₃) ₃ ·9H ₂ O	0.05	0.05
FeSO ₄ ·7H ₂ O	0.417	0.417
KCl	311.80	311.80
MgSO ₄ (anhydrous)	84.95	84.95
NaCl	7000.00	7000.00
NaH ₂ PO ₄ ·H ₂ O	62.50	62.50
Na ₂ HPO ₄ (anhydrous)	71.00	71.00
ZnSO ₄ ·7H ₂ O	0.4315	0.4315
Amino Acids		
L-Alanine	4.45	4.45
L-Arginine·HCl	147.50	147.50
L-Asparagine·H ₂ O	7.50	7.50
L-Aspartic acid	6.65	6.65
L-Cysteine·HCl·H ₂ O	17.56	17.56
L-Cystine·2HCl	31.285	31.285
L-Glutamic acid	7.35	7.35
Glycine	18.75	18.75
L-Histidine·HCl·H ₂ O	31.48	31.48
L-Isoleucine	54.37	54.37
L-Leucine	58.95	58.95
L-Lysine·HCl	91.35	91.35
L-Methionine	17.24	17.24
L-Phenylalanine	35.48	35.48
L-Proline	17.25	17.25
L-Serine	26.25	26.25
L-Threonine	53.55	53.55
L-Tryptophan	9.02	9.02
L-Tyrosine·2Na·2H ₂ O	55.815	55.815
L-Valine	52.85	52.85

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**Dulbecco's Modification of Eagle's Medium (DMEM)/F-12 50/50 MIX
Formulation, Contd.**

Catalog no.	219-000 Powder DMEM/F12	219-001 Powder DMEM/F12
Vitamins	mg/L	mg/L
Biotin	0.00365	0.00365
D-Calcium pantothenate	2.24	2.24
Choline chloride	8.98	8.98
Folic acid	2.65	2.65
i-Inositol	12.61	12.61
Nicotinamide	2.0185	2.0185
Pyridoxine·HCl	2.031	2.031
Riboflavin	0.219	0.219
Thiamine·HCl	2.17	2.17
Vitamin B ₁₂	0.68	0.68
Other		
D-Glucose	3151.00	3151.00
HEPES	----	----
Hypoxanthine, Na	2.385	2.385
Lipoic acid	0.105	0.105
Methyl lineoleate	0.044	0.044
Phenol red, Na	----	8.10
Putrescine·2HCl	0.08	0.08
Sodium pyruvate	110.00	110.00
Thymidine	0.365	0.365
Specifications		
pH (after buffer)	8.0 ± 0.5	7.6 ± 0.3
Osmolality (mOsm/kg)	290 ± 30	312 ± 12
Grams of powder required to prepare 1L (1X Solution)	11.69	11.70

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