

DMEM/F12 Medium Ingredient Formula_Table 1

Ingredient(mg/L) / Cat. No.	PM150312	PM150312A	PM150310	PM150310A	PM150311	PM150313	PM150316
Inorganic Salt							
CaCl ₂ (Anhydrous)	116.6	116.6	116.6	116.6	116.6	116.6	116.6
CuSO ₄ •5H ₂ O	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
Fe(NO ₃) ₃ •9H ₂ O	0.05	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	0.417
MgCl ₂ (Anhydrous)	28.64	28.64	28.64	28.64	28.64	28.64	28.64
MgSO ₄ (Anhydrous)	48.84	48.84	48.84	48.84	48.84	48.84	48.84
KCl	311.8	311.8	311.8	311.8	311.8	311.8	311.8
NaHCO ₃	2438	2438	1200	1200	1200	2438	2438
NaCl	6995.5	6995.5	6995.5	6995.5	6995.5	6995.5	6995.5
Na ₂ HPO ₄ (Anhydrous)	71.02	71.02	71.02	71.02	71.02	71.02	71.02
NaH ₂ PO ₄ (Anhydrous)	54.3	54.3	54.3	54.3	54.3	54.3	54.3
ZnSO ₄ •7H ₂ O	0.432	0.432	0.432	0.432	0.432	0.432	0.432
Amino Acid							
Glycine	18.75	18.75	18.75	18.75	18.75	18.75	18.75
L-Alanine	4.45	4.45	4.45	4.45	4.45	4.45	4.45
L-Arginine Hydrochloride	147.5	147.5	147.5	147.5	147.5	147.5	147.5
L-Asparagine Monohydrate	7.5	7.5	7.5	7.5	7.5	7.5	7.5
L-Aspartic Acid	6.65	6.65	6.65	6.65	6.65	6.65	6.65
L-Cysteine Hydrochloride	17.56	17.56	17.56	17.56	17.56	17.56	17.56
L-Cystine Dihydrochloride	31.29	31.29	31.29	31.29	31.29	31.29	31.29
L-Glutamic Acid	7.35	7.35	7.35	7.35	7.35	7.35	7.35
L-Glutamine	365	365	365	365	–	–	365
L-Histidine Hydrochloride	31.48	31.48	31.48	31.48	31.48	31.48	31.48
L-Isoleucine	54.47	54.47	54.47	54.47	54.47	54.47	54.47
L-Leucine	59.05	59.05	59.05	59.05	59.05	59.05	59.05
L-Lysine Hydrochloride	91.25	91.25	91.25	91.25	91.25	91.25	91.25
L-Methionine	17.24	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	35.48
L-Proline	17.25	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	26.25
L-Threonine	53.45	53.45	53.45	53.45	53.45	53.45	53.45
L-Tryptophan	9.02	9.02	9.02	9.02	9.02	9.02	9.02
L-Tyrosine Disodium Salt	55.79	55.79	55.79	55.79	55.79	55.79	55.79
L-Valine	52.85	52.85	52.85	52.85	52.85	52.85	52.85
Vitamin							
Biotin	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035
Choline Chloride	8.98	8.98	8.98	8.98	8.98	8.98	8.98
D-Calcium Pantothenate	2.24	2.24	2.24	2.24	2.24	2.24	2.24
Folic Acid	2.65	2.65	2.65	2.65	2.65	2.65	2.65
Niacinamide	2.02	2.02	2.02	2.02	2.02	2.02	2.02
Pyridoxine Hydrochloride	2	2	2	2	2	2	2
Riboflavin	0.219	0.219	0.219	0.219	0.219	0.219	0.219
Thiamine Hydrochlorid	2.17	2.17	2.17	2.17	2.17	2.17	2.17
Vitamin B12	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Meso-inositol	12.6	12.6	12.6	12.6	12.6	12.6	12.6
Others							
D-Glucose	3151	3151	3151	3151	3151	3151	3151
HEPES	–	–	3574.5	3574.5	3574.5	–	–
Hypoxanthine Sodium Salt	2.39	2.39	2.39	2.39	2.39	2.39	2.39
Linoleic Acid	0.042	0.042	0.042	0.042	0.042	0.042	0.042
Znso ₄	0.105	0.105	0.105	0.105	0.105	0.105	0.105
Phenol Red	8.1	8.1	8.1	8.1	8.1	8.1	–
Putrescine Dihydrochloride	0.081	0.081	0.081	0.081	0.081	0.081	0.081
Sodium Pyruvate	55	55	55	55	55	55	55
Thymidine	0.365	0.365	0.365	0.365	0.365	0.365	0.365
Penicillin G Sodium Salt	–	100kU	–	100kU	–	–	–
Streptomycin Sulfate	–	100	–	100	–	–	–

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DMEM/F12 Ingredient Formula_Table 2

Ingredient(mg/L) / Cat.	PM150314	PM150315	PM150317	PM150318	PM150319	PM150320	PM150321
Inorganic Salt							
CaCl ₂ (Anhydrous)	116.6	116.6	116.6	116.6	116.6	116.6	116.6
CuSO ₄ •5H ₂ O	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
Fe(NO ₃) ₃ •9H ₂ O	0.05	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	0.417
MgCl ₂ (Anhydrous)	28.64	28.64	28.64	28.64	28.64	28.64	28.64
MgSO ₄ (Anhydrous)	48.84	48.84	48.84	48.84	48.84	48.84	48.84
KCl	311.8	311.8	311.8	311.8	311.8	311.8	311.8
NaHCO ₃	2438	1200	2438	1200	1200	2438	1200
NaCl	6995.5	6995.5	6995.5	6995.5	6995.5	6995.5	6995.5
Na ₂ HPO ₄ (Anhydrous)	71.02	71.02	71.02	71.02	71.02	71.02	71.02
NaH ₂ PO ₄ (Anhydrous)	54.3	54.3	54.3	54.3	54.3	54.3	54.3
ZnSO ₄ •7H ₂ O	0.432	0.432	0.432	0.432	0.432	0.432	0.432
Amino Acid							
L-Alanyl-L-Glutamine	543	543	–	–	–	543	543
Glycine	18.75	18.75	18.75	18.75	18.75	18.75	18.75
L-Alanine	4.45	4.45	4.45	4.45	4.45	4.45	4.45
L-Arginine Hydrochloride	147.5	147.5	147.5	147.5	147.5	147.5	147.5
L-Asparagine Monohydrate	7.5	7.5	7.5	7.5	7.5	7.5	7.5
L-Aspartic Acid	6.65	6.65	6.65	6.65	6.65	6.65	6.65
L-Cysteine Hydrochloride	17.56	17.56	17.56	17.56	17.56	17.56	17.56
L-Cystine Dihydrochloride	31.29	31.29	31.29	31.29	31.29	31.29	31.29
L-Glutamic Acid	7.35	7.35	7.35	7.35	7.35	7.35	7.35
L-Glutamine	–	–	–	365	–	–	–
L-Histidine Hydrochloride	31.48	31.48	31.48	31.48	31.48	31.48	31.48
L-Isoleucine	54.47	54.47	54.47	54.47	54.47	54.47	54.47
L-Leucine	59.05	59.05	59.05	59.05	59.05	59.05	59.05
L-Lysine Hydrochloride	91.25	91.25	91.25	91.25	91.25	91.25	91.25
L-Methionine	17.24	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	35.48
L-Proline	17.25	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	26.25
L-Threonine	53.45	53.45	53.45	53.45	53.45	53.45	53.45
L-Tryptophan	9.02	9.02	9.02	9.02	9.02	9.02	9.02
L-Tyrosine Disodium Salt	55.79	55.79	55.79	55.79	55.79	55.79	55.79
L-Valine	52.85	52.85	52.85	52.85	52.85	52.85	52.85
Vitamin							
Biotin	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035
Choline Chloride	8.98	8.98	8.98	8.98	8.98	8.98	8.98
D-Calcium Pantothenate	2.24	2.24	2.24	2.24	2.24	2.24	2.24
Folic Acid	2.65	2.65	2.65	2.65	2.65	2.65	2.65
Niacinamide	2.02	2.02	2.02	2.02	2.02	2.02	2.02
Pyridoxine Hydrochloride	2	2	2	2	2	2	2
Riboflavin	0.219	0.219	0.219	0.219	0.219	0.219	0.219
Thiamine Hydrochlorid	2.17	2.17	2.17	2.17	2.17	2.17	2.17
Vitamin B12	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Meso-inositol	12.6	12.6	12.6	12.6	12.6	12.6	12.6
Others							
D-Glucose	3151	3151	3151	3151	3151	3151	3151
HEPES	–	3574.5	3574.5	3574.5	3574.5	–	3574.5
Hypoxanthine Sodium Salt	2.39	2.39	2.39	2.39	2.39	2.39	2.39
Linoleic Acid	0.042	0.042	0.042	0.042	0.042	0.042	0.042
Znso ₄	0.105	0.105	0.105	0.105	0.105	0.105	0.105
Phenol Red	8.1	8.1	–	–	–	–	–
Putrescine Dihydrochloride	0.081	0.081	0.081	0.081	0.081	0.081	0.081
Sodium Pyruvate	55	55	55	55	55	55	55
Thymidine	0.365	0.365	0.365	0.365	0.365	0.365	0.365

DMEM/F12 Ingredient Formula_Table 3

Ingredient(mg/L) / Cat.	PM150322	PM150323	PM150324	PM150325	PM150326	PM150327	PM150328
Inorganic Salt							
CaCl ₂ (Anhydrous)	116.6	116.6	116.6	116.6	116.6	116.6	116.6
CuSO ₄ •5H ₂ O	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
Fe(NO ₃) ₃ •9H ₂ O	0.05	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	0.417
MgCl ₂ (Anhydrous)	28.64	28.64	28.64	28.64	28.64	28.64	28.64
MgSO ₄ (Anhydrous)	48.84	48.84	48.84	48.84	48.84	48.84	48.84
KCl	311.8	311.8	311.8	311.8	311.8	311.8	311.8
NaHCO ₃	2438	1200	2438	1200	2438	1200	2438
NaCl	6995.5	6995.5	6995.5	6995.5	6995.5	6995.5	6995.5
Na ₂ HPO ₄ (Anhydrous)	71.02	71.02	71.02	71.02	71.02	71.02	71.02
NaH ₂ PO ₄ (Anhydrous)	54.3	54.3	54.3	54.3	54.3	54.3	54.3
ZnSO ₄ •7H ₂ O	0.432	0.432	0.432	0.432	0.432	0.432	0.432
Amino Acid							
L-Alanyl-L-Glutamine	–	–	–	–	–	–	–
Glycine	18.75	18.75	18.75	18.75	18.75	18.75	18.75
L-Alanine	4.45	4.45	4.45	4.45	4.45	4.45	4.45
L-Arginine Hydrochloride	147.5	147.5	147.5	147.5	147.5	147.5	147.5
L-Asparagine Monohydrate	7.5	7.5	7.5	7.5	7.5	7.5	7.5
L-Aspartic Acid	6.65	6.65	6.65	6.65	6.65	6.65	6.65
L-Cysteine Hydrochloride	17.56	17.56	17.56	17.56	17.56	17.56	17.56
L-Cystine Dihydrochloride	31.29	31.29	31.29	31.29	31.29	31.29	31.29
L-Glutamic Acid	7.35	7.35	7.35	7.35	7.35	7.35	7.35
L-Glutamine	365	365	365	365	–	–	–
L-Histidine Hydrochloride	31.48	31.48	31.48	31.48	31.48	31.48	31.48
L-Isoleucine	54.47	54.47	54.47	54.47	54.47	54.47	54.47
L-Leucine	59.05	59.05	59.05	59.05	59.05	59.05	59.05
L-Lysine Hydrochloride	91.25	91.25	91.25	91.25	91.25	91.25	91.25
L-Methionine	17.24	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	35.48
L-Proline	17.25	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	26.25
L-Threonine	53.45	53.45	53.45	53.45	53.45	53.45	53.45
L-Tryptophan	9.02	9.02	9.02	9.02	9.02	9.02	9.02
L-Tyrosine Disodium Salt	55.79	55.79	55.79	55.79	55.79	55.79	55.79
L-Valine	52.85	52.85	52.85	52.85	52.85	52.85	52.85
Vitamin							
Biotin	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035
Choline Chloride	8.98	8.98	8.98	8.98	8.98	8.98	8.98
D-Calcium Pantothenate	2.24	2.24	2.24	2.24	2.24	2.24	2.24
Folic Acid	2.65	2.65	2.65	2.65	2.65	2.65	2.65
Niacinamide	2.02	2.02	2.02	2.02	2.02	2.02	2.02
Pyridoxine Hydrochloride	2	2	2	2	2	2	2
Riboflavin	0.219	0.219	0.219	0.219	0.219	0.219	0.219
Thiamine Hydrochlorid	2.17	2.17	2.17	2.17	2.17	2.17	2.17
Vitamin B12	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Meso-inositol	12.6	12.6	12.6	12.6	12.6	12.6	12.6
Others							
D-Glucose	–	–	–	–	–	–	–
HEPES	–	3574.5	–	3574.5	–	3574.5	–
Hypoxanthine Sodium Salt	2.39	2.39	2.39	2.39	2.39	2.39	2.39
Linoleic Acid	0.042	0.042	0.042	0.042	0.042	0.042	0.042
Znso ₄	0.105	0.105	0.105	0.105	0.105	0.105	0.105
Phenol Red	8.1	8.1	–	–	8.1	8.1	–
Putrescine Dihydrochloride	0.081	0.081	0.081	0.081	0.081	0.081	0.081
Sodium Pyruvate	55	55	55	55	55	55	55
Thymidine	0.365	0.365	0.365	0.365	0.365	0.365	0.365

DMEM/F12 Ingredient Formula_Table 4

Ingredient(mg/L) / Cat.	PM150329	PM150330	PM150331	PM1503332	PM150333
Inorganic Salt					
CaCl ₂ (Anhydrous)	116.6	116.6	116.6	116.6	116.6
CuSO ₄ •5H ₂ O	0.0013	0.0013	0.0013	0.0013	0.0013
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
MgCl ₂ (Anhydrous)	28.64	28.64	28.64	28.64	28.64
MgSO ₄ (Anhydrous)	48.84	48.84	48.84	48.84	48.84
KCl	311.8	311.8	311.8	311.8	311.8
NaHCO ₃	1200	2438	1200	2438	1200
NaCl	6995.5	6995.5	6995.5	6995.5	6995.5
Na ₂ HPO ₄ (Anhydrous)	71.02	71.02	71.02	71.02	71.02
NaH ₂ PO ₄ (Anhydrous)	54.3	54.3	54.3	54.3	54.3
ZnSO ₄ •7H ₂ O	0.432	0.432	0.432	0.432	0.432
Amino Acid					
L-Alanyl-L-Glutamine	–	543	543	543	543
Glycine	18.75	18.75	18.75	18.75	18.75
L-Alanine	4.45	4.45	4.45	4.45	4.45
L-Arginine Hydrochloride	147.5	147.5	147.5	147.5	147.5
L-Asparagine Monohydrate	7.5	7.5	7.5	7.5	7.5
L-Aspartic Acid	6.65	6.65	6.65	6.65	6.65
L-Cysteine Hydrochloride Monohydrate	17.56	17.56	17.56	17.56	17.56
L-Cystine Dihydrochloride	31.29	31.29	31.29	31.29	31.29
L-Glutamic Acid	7.35	7.35	7.35	7.35	7.35
L-Glutamine	–	–	–	–	–
L-Histidine Hydrochloride monohydrate	31.48	31.48	31.48	31.48	31.48
L-Isoleucine	54.47	54.47	54.47	54.47	54.47
L-Leucine	59.05	59.05	59.05	59.05	59.05
L-Lysine Hydrochloride	91.25	91.25	91.25	91.25	91.25
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	53.45	53.45	53.45	53.45	53.45
L-Tryptophan	9.02	9.02	9.02	9.02	9.02
L-Tyrosine Disodium Salt dihydrate	55.79	55.79	55.79	55.79	55.79
L-Valine	52.85	52.85	52.85	52.85	52.85
Vitamin					
Biotin	0.0035	0.0035	0.0035	0.0035	0.0035
Choline Chloride	8.98	8.98	8.98	8.98	8.98
D-Calcium Pantothenate	2.24	2.24	2.24	2.24	2.24
Folic Acid	2.65	2.65	2.65	2.65	2.65
Niacinamide	2.02	2.02	2.02	2.02	2.02
Pyridoxine Hydrochloride	2	2	2	2	2
Riboflavin	0.219	0.219	0.219	0.219	0.219
Thiamine Hydrochlorid	2.17	2.17	2.17	2.17	2.17
Vitamin B12	0.68	0.68	0.68	0.68	0.68
Meso-inositol	12.6	12.6	12.6	12.6	12.6
Others					
D-Glucose	–	–	–	–	–
HEPES	3574.5	–	3574.5	–	3574.5
Hypoxanthine Sodium Salt	2.39	2.39	2.39	2.39	2.39
Linoleic Acid	0.042	0.042	0.042	0.042	0.042
Znso ₄	0.105	0.105	0.105	0.105	0.105
Phenol Red	–	8.1	8.1	–	–
Putrescine Dihydrochloride	0.081	0.081	0.081	0.081	0.081
Sodium Pyruvate	55	55	55	55	55
Thymidine	0.365	0.365	0.365	0.365	0.365