

**RPMI-1640 Medium Ingredient Formula\_Table 1**

Ingredient (mg/L) / Cat. No.	PM150110	PM150110A	PM150113	PM150113A	PM150114	PM150115	PM150116	PM150117
<b>Inorganic Salt</b>								
Ca(NO3)2·4H2O	100	100	100	100	100	100	100	100
MgSO4 (Anhydrous)	48.84	48.84	48.84	48.84	48.84	48.84	48.84	48.84
KCl	400	400	400	400	400	400	400	400
NaHCO3	2000	2000	2000	2000	2000	2000	2000	2000
NaCl	6000	6000	5300	5300	5300	6000	6000	5300
NaH2PO4 (Anhydrous)	800	800	800	800	800	800	800	800
<b>Amino Acid</b>								
L-Alanyl-L-Glutamine	-	-	-	-	-	-	446	446
Glycine	10	10	10	10	10	10	10	10
L-Arginine	200	200	200	200	200	200	200	200
L-Asparagine	50	50	50	50	50	50	50	50
L-Aspartic Acid	20	20	20	20	20	20	20	20
L-Cystine 2HCl	65	65	65	65	65	65	65	65
L-Glutamic Acid	20	20	20	20	20	20	20	20
L-Glutamine	300	300	300	300	-	-	-	-
L-Histidine	15	15	15	15	15	15	15	15
L-Hydroxyproline	20	20	20	20	20	20	20	20
L-Isoleucine	50	50	50	50	50	50	50	50
L-Leucine	50	50	50	50	50	50	50	50
L-Lysine Hydrochloride	40	40	40	40	40	40	40	40
L-Methionine	15	15	15	15	15	15	15	15
L-Phenylalanine	15	15	15	15	15	15	15	15
L-Proline	20	20	20	20	20	20	20	20
L-Serine	30	30	30	30	30	30	30	30
L-Threonine	20	20	20	20	20	20	20	20
L-Tryptophan	5	5	5	5	5	5	5	5
L-Tyrosine Disodium Salt Dihydrate	29	29	29	29	29	29	29	29
L-Valine	20	20	20	20	20	20	20	20
<b>Vitamin</b>								
Biotin	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Choline Chloride	3	3	3	3	3	3	3	3
D-Calcium Pantothenate	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Folic Acid	1	1	1	1	1	1	1	1
Niacinamide	1	1	1	1	1	1	1	1
Para-aminobenzoic Acid	1	1	1	1	1	1	1	1
Pyridoxine Hydrochloride	1	1	1	1	1	1	1	1
Riboflavin	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Thiamine Hydrochlorid	1	1	1	1	1	1	1	1
Vitamin B12	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Meso-inositol	35	35	35	35	35	35	35	35
<b>Others</b>								
D-Glucose	2000	2000	2000	2000	2000	2000	2000	2000
Glutathione (Reduced)	1	1	1	1	1	1	1	1
HEPES	-	-	5958	5958	5958	-	-	5958
Phenol Red	5	5	5	5	5	5	5	5
Sodium Pyruvate	-	-	-	-	-	-	-	-
Penicillin G Sodium Salt	-	100 kU	-	100 kU	-	-	-	-
Streptomycin Sulfate	-	100	-	100	-	-	-	-

**RPMI-1640 Medium Ingredient Formula\_Table 2**

Ingredient (mg/L) / Cat. No.	PM150118	PM150119	PM150120	PM150121	PM150122	PM150123	PM150124	PM150125
<b>Inorganic Salt</b>								
Ca(NO <sub>3</sub> ) <sub>2</sub> ·4H <sub>2</sub> O	100	100	100	100	100	100	100	100
MgSO <sub>4</sub> (Anhydrous)	48.84	48.84	48.84	48.84	48.84	48.84	48.84	48.84
KCl	400	400	400	400	400	400	400	400
NaHCO <sub>3</sub>	2000	2000	2000	2000	2000	2000	2000	2000
NaCl	6000	5300	6000	6000	6000	5300	5300	6000
NaH <sub>2</sub> PO <sub>4</sub> (Anhydrous)	800	800	800	800	800	800	800	800
<b>Amino Acid</b>								
L-Alanyl-L-Glutamine	446	446	-	-	-	-	-	-
Glycine	10	10	10	10	10	10	10	10
L-Arginine	200	200	200	200	200	200	200	200
L-Asparagine	50	50	50	50	50	50	50	50
L-Aspartic Acid	20	20	20	20	20	20	20	20
L-Cystine 2HCl	65	65	65	65	65	65	65	65
L-Glutamic Acid	20	20	20	20	20	20	20	20
L-Glutamine	-	-	300	-	300	300	-	-
L-Histidine	15	15	15	15	15	15	15	15
L-Hydroxyproline	20	20	20	20	20	20	20	20
L-Isoleucine	50	50	50	50	50	50	50	50
L-Leucine	50	50	50	50	50	50	50	50
L-Lysine Hydrochloride	40	40	40	40	40	40	40	40
L-Methionine	15	15	15	15	15	15	15	15
L-Phenylalanine	15	15	15	15	15	15	15	15
L-Proline	20	20	20	20	20	20	20	20
L-Serine	30	30	30	30	30	30	30	30
L-Threonine	20	20	20	20	20	20	20	20
L-Tryptophan	5	5	5	5	5	5	5	5
L-Tyrosine Disodium Salt Dihydrate	29	29	29	29	29	29	29	29
L-Valine	20	20	20	20	20	20	20	20
<b>Vitamin</b>								
Biotin	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Choline Chloride	3	3	3	3	3	3	3	3
D-Calcium Pantothenate	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Folic Acid	1	1	1	1	1	1	1	1
Niacinamide	1	1	1	1	1	1	1	1
Para-aminobenzoic Acid	1	1	1	1	1	1	1	1
Pyridoxine Hydrochloride	1	1	1	1	1	1	1	1
Riboflavin	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Thiamine Hydrochlorid	1	1	1	1	1	1	1	1
Vitamin B12	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Meso-inositol	35	35	35	35	35	35	35	35
<b>Others</b>								
D-Glucose	2000	2000	2000	2000	-	-	-	-
Glutathione (Reduced)	1	1	1	1	1	1	1	1
HEPES	-	5958	-	-	-	5958	5958	-
Phenol Red	-	-	-	-	5	5	5	5
Sodium Pyruvate	-	-	-	-	-	-	-	-
Penicillin G Sodium Salt	-	-	-	-	-	-	-	-
Streptomycin Sulfate	-	-	-	-	-	-	-	-

**RPMI-1640 Medium Ingredient Formula\_Table 3**

Ingredient (mg/L) / Cat. No.	PM150126	PM150127	PM150128	PM150129	PM150130	PM150131	PM150132	PM150133
<b>Inorganic Salt</b>								
Ca(NO3)2·4H2O	100	100	100	100	100	100	100	100
MgSO4 (Anhydrous)	48.84	48.84	48.84	48.84	48.84	48.84	48.84	48.84
KCl	400	400	400	400	400	400	400	400
NaHCO3	2000	2000	2000	2000	2000	2000	2000	2000
NaCl	6000	5300	6000	5300	6000	5300	5300	5300
NaH2PO4 (Anhydrous)	800	800	800	800	800	800	800	800
<b>Amino Acid</b>								
L-Alanyl-L-Glutamine	446	446	446	446	-	-	-	-
Glycine	10	10	10	10	10	10	10	10
L-Arginine	200	200	200	200	200	200	200	200
L-Asparagine	50	50	50	50	50	50	50	50
L-Aspartic Acid	20	20	20	20	20	20	20	20
L-Cystine 2HCl	65	65	65	65	65	65	65	65
L-Glutamic Acid	20	20	20	20	20	20	20	20
L-Glutamine	-	-	-	-	300	-	300	-
L-Histidine	15	15	15	15	15	15	15	15
L-Hydroxyproline	20	20	20	20	20	20	20	20
L-Isoleucine	50	50	50	50	50	50	50	50
L-Leucine	50	50	50	50	50	50	50	50
L-Lysine Hydrochloride	40	40	40	40	40	40	40	40
L-Methionine	15	15	15	15	15	15	15	15
L-Phenylalanine	15	15	15	15	15	15	15	15
L-Proline	20	20	20	20	20	20	20	20
L-Serine	30	30	30	30	30	30	30	30
L-Threonine	20	20	20	20	20	20	20	20
L-Tryptophan	5	5	5	5	5	5	5	5
L-Tyrosine Disodium Salt Dihydrate	29	29	29	29	29	29	29	29
L-Valine	20	20	20	20	20	20	20	20
<b>Vitamin</b>								
Biotin	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Choline Chloride	3	3	3	3	3	3	3	3
D-Calcium Pantothenate	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Folic Acid	1	1	1	1	1	1	1	1
Niacinamide	1	1	1	1	1	1	1	1
Para-aminobenzoic Acid	1	1	1	1	1	1	1	1
Pyridoxine Hydrochloride	1	1	1	1	1	1	1	1
Riboflavin	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Thiamine Hydrochlorid	1	1	1	1	1	1	1	1
Vitamin B12	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Meso-inositol	35	35	35	35	35	35	35	35
<b>Others</b>								
D-Glucose	-	-	-	-	-	-	-	-
Glutathione (Reduced)	1	1	1	1	1	1	1	1
HEPES	-	5958	-	5958	-	-	5958	5958
Phenol Red	5	5	-	-	-	-	-	-
Sodium Pyruvate	-	-	-	-	-	-	-	-
Penicillin G Sodium Salt	-	-	-	-	-	-	-	-
Streptomycin Sulfate	-	-	-	-	-	-	-	-

**RPMI-1640 Medium Ingredient Formula\_Table 4**

Ingredient (mg/L) / Cat. No.	PM150140	PM150141	PM150142	PM150143	PM150144	PM150145	PM150134	PM150147
<b>Inorganic Salt</b>								
Ca(NO <sub>3</sub> ) <sub>2</sub> ·4H <sub>2</sub> O	100	100	100	100	100	100	200	100
MgSO <sub>4</sub> (Anhydrous)	48.84	48.84	48.84	48.84	48.84	48.84	97.68	48.84
KCl	400	400	400	400	400	400	800	400
NaHCO <sub>3</sub>	1500	1000	2000	2000	2000	2000	4000	2000
NaCl	6000	6400	6000	6000	6000	6000	12000	6000
NaH <sub>2</sub> PO <sub>4</sub> (Anhydrous)	800	800	800	800	800	800	1600	800
<b>Amino Acid</b>								
L-Alanyl-L-Glutamine	–	–	–	–	–	–	–	–
Glycine	10	10	10	10	10	10	20	10
L-Arginine	200	200	200	200	–	–	400	200
L-Asparagine	50	50	50	50	50	50	100	50
L-Aspartic Acid	20	20	20	20	20	20	40	20
L-Cystine 2HCl	65	65	65	65	65	65	130	65
L-Glutamic Acid	20	20	20	20	20	20	40	20
L-Glutamine	300	300	300	300	–	–	600	300
L-Histidine	15	15	15	15	15	15	30	15
L-Hydroxyproline	20	20	20	20	20	20	40	20
L-Isoleucine	50	50	50	50	50	50	100	50
L-Leucine	50	50	50	50	50	50	100	50
L-Lysine Hydrochloride	40	40	40	40	–	–	80	40
L-Methionine	15	15	15	–	15	15	30	15
L-Phenylalanine	15	15	15	15	15	15	30	15
L-Proline	20	20	20	20	20	20	40	20
L-Serine	30	30	30	30	30	30	60	30
L-Threonine	20	20	20	20	20	20	40	20
L-Tryptophan	5	5	5	5	5	5	10	5
L-Tyrosine Disodium Salt	29	29	29	29	29	29	58	29
L-Valine	20	20	20	20	20	20	40	20
<b>Vitamin</b>								
Biotin	0.2	0.2	0.2	0.2	0.2	0.2	.04	0.2
Choline Chloride	3	3	3	3	3	3	6	3
D-Calcium Pantothenate	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25
Folic Acid	1	1	–	1	1	1	2	1
Niacinamide	1	1	1	1	1	1	2	1
Para-aminobenzoic Acid	1	1	1	1	1	1	2	1
Pyridoxine Hydrochloride	1	1	1	1	1	1	2	1
Riboflavin	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2
Thiamine Hydrochlorid	1	1	1	1	1	1	2	1
Vitamin B12	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.005
Meso-inositol	35	35	35	35	35	35	70	35
<b>Others</b>								
D-Glucose	4500	2000	2000	2000	–	2000	4000	2000
Glutathione (Reduced)	1	1	1	1	1	1	2	1
MOPS	–	–	–	–	–	–	–	34530
HEPES	2383	4770	–	–	–	–	–	–
Phenol Red	5	5	5	5	–	5	10	5
Sodium Pyruvate	110	–	–	–	–	–	–	–
Penicillin G Sodium Salt	–	–	–	–	–	–	–	–
Streptomycin Sulfate	–	–	–	–	–	–	–	–