

**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(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	6000	5300	5300	5300	6000	6000	5300
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 Dihydrochloride	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	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	–	100kU	–	100kU	–	–	–	–
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 Dihydrochloride	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	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(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	5300	6000	5300	5300	5300
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	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 Dihydrochloride	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	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
<b>Inorganic Salt</b>						
Ca(NO <sub>3</sub> ) <sub>2</sub> ·4H <sub>2</sub> O	100	100	100	100	100	100
MgSO <sub>4</sub> (Anhydrous)	48.84	48.84	48.84	48.84	48.84	48.84
KCl	400	400	400	400	400	400
NaHCO <sub>3</sub>	1500	1000	2000	2000	2000	2000
NaCl	6000	6400	6000	6000	6000	6000
NaH <sub>2</sub> PO <sub>4</sub> (Anhydrous)	800	800	800	800	800	800
<b>Amino Acid</b>						
L-Alanyl-L-Glutamine	–	–	–	–	–	–
Glycine	10	10	10	10	10	10
L-Arginine	200	200	200	200	–	–
L-Asparagine	50	50	50	50	50	50
L-Aspartic Acid	20	20	20	20	20	20
L-Cystine Dihydrochloride	65	65	65	65	65	65
L-Glutamic Acid	20	20	20	20	20	20
L-Glutamine	300	300	300	300	–	–
L-Histidine	15	15	15	15	15	15
L-Hydroxyproline	20	20	20	20	20	20
L-Isoleucine	50	50	50	50	50	50
L-Leucine	50	50	50	50	50	50
L-Lysine Hydrochloride	40	40	40	40	–	–
L-Methionine	15	15	15	–	15	15
L-Phenylalanine	15	15	15	15	15	15
L-Proline	20	20	20	20	20	20
L-Serine	30	30	30	30	30	30
L-Threonine	20	20	20	20	20	20
L-Tryptophan	5	5	5	5	5	5
L-Tyrosine Disodium Salt Dihydrate	29	29	29	29	29	29
L-Valine	20	20	20	20	20	20
<b>Vitamin</b>						
Biotin	0.2	0.2	0.2	0.2	0.2	0.2
Choline Chloride	3	3	3	3	3	3
D-Calcium Pantothenate	0.25	0.25	0.25	0.25	0.25	0.25
Folic Acid	1	1	–	1	1	1
Niacinamide	1	1	1	1	1	1
Para-aminobenzoic Acid	1	1	1	1	1	1
Pyridoxine Hydrochloride	1	1	1	1	1	1
Riboflavin	0.2	0.2	0.2	0.2	0.2	0.2
Thiamine Hydrochlorid	1	1	1	1	1	1
Vitamin B12	0.005	0.005	0.005	0.005	0.005	0.005
Meso-inositol	35	35	35	35	35	35
<b>Others</b>						
D-Glucose	4500	2000	2000	2000	–	2000
Glutathione (Reduced)	1	1	1	1	1	1
HEPES	2383	4770	–	–	–	–
Phenol Red	5	5	5	5	–	5
Sodium Pyruvate	110	–	–	–	–	–
Penicillin G Sodium Salt	–	–	–	–	–	–
Streptomycin Sulfate	–	–	–	–	–	–