

Catalog No.	10-040 1X, Liquid RPMI 1640	10-041 1X, Liquid RPMI 1640	10-043 1X, Liquid RPMI 1640	15-040 1X, Liquid RPMI 1640	15-041 1X, Liquid RPMI 1640
Inorganic Salts	mg/L	mg/L	mg/L	mg/L	mg/L
Ca(NO ₃) ₂ •4H ₂ O	100.00	100.00	100.00	100.00	100.00
KCl	400.00	400.00	400.00	400.00	400.00
MgSO ₄ (anhydrous)	48.80	48.80	48.80	48.80	48.80
NaCl	6000.00	6000.00	6000.00	6000.00	6000.00
Na ₂ HPO ₄ (anhydrous)	800.70	800.70	800.70	800.70	800.70
NaHCO ₃	2000.00	2000.00	2000.00	2000.00	2000.00
Amino Acids					
L-Arginine•HCl	200.00	200.00	200.00	200.00	200.00
L-Asparagine•H ₂ O	56.82	56.82	56.82	56.82	56.82
L-Aspartic acid	20.00	20.00	20.00	20.00	20.00
L-Cystine•2HCl	65.20	65.20	65.20	65.20	65.20
L-Glutamic acid	20.00	20.00	20.00	20.00	20.00
L-Glutamine	300.00	300.00	300.00	—	—
Glycine	10.00	10.00	10.00	10.00	10.00
L-Histidine	15.00	15.00	15.00	15.00	15.00
Hydroxy-L-proline	20.00	20.00	20.00	20.00	20.00
L-Isoleucine	50.00	50.00	50.00	50.00	50.00
L-Leucine	50.00	50.00	50.00	50.00	50.00
L-Lysine•HCl	40.00	40.00	40.00	40.00	40.00
L-Methionine	15.00	15.00	15.00	15.00	15.00
L-Phenylalanine	15.00	15.00	15.00	15.00	15.00
L-Proline	20.00	20.00	20.00	20.00	20.00
L-Serine	30.00	30.00	30.00	30.00	30.00
L-Threonine	20.00	20.00	20.00	20.00	20.00
L-Tryptophan	5.00	5.00	5.00	5.00	5.00
L-Tyrosine•2Na•2H ₂ O	28.83	28.83	28.83	28.83	28.83
L-Valine	20.00	20.00	20.00	20.00	20.00
Vitamins					
Biotin	0.20	0.20	0.20	0.20	0.20
D-Calcium pantothenate	0.25	0.25	0.25	0.25	0.25
Choline chloride	3.00	3.00	3.00	3.00	3.00
Folic acid	1.00	1.00	1.00	1.00	1.00
i-Inositol	35.00	35.00	35.00	35.00	35.00
Nicotinamide	1.00	1.00	1.00	1.00	1.00
<i>Para</i> -Aminobenzoic acid	1.00	1.00	1.00	1.00	1.00
Pyridoxine•HCl	1.00	1.00	1.00	1.00	1.00
Riboflavin	0.20	0.20	0.20	0.20	0.20
Thiamine•HCl	1.00	1.00	1.00	1.00	1.00
Vitamin B ₁₂	0.005	0.005	0.005	0.005	0.005
Other					
D-Glucose	2000.00	2000.00	—	2000.00	2000.00
Glutathione (reduced)	1.00	1.00	1.00	1.00	1.00
HEPES	—	5958.00	—	—	5958.00
Phenol red, Na	5.00	5.00	5.00	5.00	5.00
Add					
NaHCO ₃					
Powder (g/L)	—	—	—	—	—
7.5% Solution (mL/L)	—	—	—	—	—
L-Glutamine					
Powder (mg/L)	—	—	—	300.00	300.00
200 mM Solution (mL/L)	—	—	—	10.27	10.27
Specifications					
pH (before buffer)	N/A	N/A	N/A	N/A	N/A
pH (after buffer)	7.15 ± 0.1	7.2 ± 0.2 @ 20-25°C	7.15 ± 0.1	7.15 ± 0.1	7.2 ± 0.2 @ 20-25°C
Osmolality (mOsm)	276 ± 30	290 ± 30	INFO	276 ± 30	288 ± 20
Grams of powder required to prepare 1L (1X Solution)	N/A	N/A	N/A	N/A	N/A

RPMI 1640

Catalog No.	17-104 1X, Liquid RPMI 1640	17-105 1X, Liquid RPMI 1640	50-020 Powder RPMI 1640	90-022 Powder RPMI 1640
Inorganic Salts	mg/L	mg/L	mg/L	mg/L
Ca(NO ₃) ₂ •4H ₂ O	100.00	100.00	100.00	100.00
KCl	400.00	400.00	400.00	400.00
MgSO ₄ (anhydrous)	48.80	48.80	48.80	48.80
NaCl	6000.00	6000.00	6000.00	6000.00
Na ₂ HPO ₄ (anhydrous)	800.70	800.70	800.70	800.70
NaHCO ₃	2000.00	2000.00	—	—
Amino Acids				
L-Arginine•HCl	200.00	200.00	200.00	200.00
L-Asparagine•H ₂ O	56.82	56.82	56.82	56.82
L-Aspartic acid	20.00	20.00	20.00	20.00
L-Cystine•2HCl	—	65.20	65.20	65.20
L-Glutamic acid	20.00	20.00	20.00	20.00
L-Glutamine	—	—	300.00	—
Glycine	10.00	10.00	10.00	10.00
L-Histidine	15.00	15.00	15.00	15.00
Hydroxy-L-proline	20.00	20.00	20.00	20.00
L-Isoleucine	50.00	50.00	50.00	50.00
L-Leucine	50.00	50.00	50.00	50.00
L-Lysine•HCl	40.00	40.00	40.00	40.00
L-Methionine	—	15.00	15.00	15.00
L-Phenylalanine	15.00	15.00	15.00	15.00
L-Proline	20.00	20.00	20.00	20.00
L-Serine	30.00	30.00	30.00	30.00
L-Threonine	20.00	20.00	20.00	20.00
L-Tryptophan	5.00	5.00	5.00	5.00
L-Tyrosine•2Na•2H ₂ O	28.83	28.83	28.83	28.83
L-Valine	20.00	20.00	20.00	20.00
Vitamins				
Biotin	0.20	0.20	0.20	0.20
D-Calcium pantothenate	0.25	0.25	0.25	0.25
Choline chloride	3.00	3.00	3.00	3.00
Folic acid	1.00	1.00	1.00	1.00
i-Inositol	35.00	35.00	35.00	35.00
Nicotinamide	1.00	1.00	1.00	1.00
<i>Para</i> -Aminobenzoic acid	1.00	1.00	1.00	1.00
Pyridoxine•HCl	1.00	1.00	1.00	1.00
Riboflavin	0.20	0.20	0.20	0.20
Thiamine•HCl	1.00	1.00	1.00	1.00
Vitamin B ₁₂	0.005	0.005	0.005	0.005
Other				
D-Glucose	2000.00	2000.00	2000.00	2000.00
Glutathione (reduced)	1.00	1.00	1.00	1.00
HEPES	—	—	—	—
Phenol red, Na	5.00	—	5.00	—
Add				
NaHCO ₃				
Powder (g/L)	—	—	2.00	2.00
7.5% Solution (mL/L)	—	—	26.70	26.70
L-Glutamine				
Powder (mg/L)	300.00	300.00	—	300.00
200 mM Solution (mL/L)	10.27	10.27	—	10.27
Specifications				
pH (before buffer)	N/A	N/A	8.0 ± 0.5	8.0 ± 0.5
pH (after buffer)	7.15 ± 0.2	7.15 ± 0.1	8.2 ± 0.5	8.1 ± 0.5
Osmolality (mOsm)	276 ± 30	276 ± 30	290 ± 30	290 ± 30
Grams of powder required to prepare 1L (1X Solution)	N/A	N/A	10.40	10.10

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