

RPMI 1640

Catalog No.	10-040	10-041	10-043	15-040	15-041	17-104	17-105	50-020	90-022
	1X Liquid RPMI 1640	1X Liquid RPMI 1640	1X Liquid RPMI 1640	1X Liquid RPMI 1640	1X Liquid RPMI 1640	1X Liquid RPMI 1640	1X Liquid RPMI 1640	Powder RPMI 1640	Powder RPMI 1640
Inorganic Salts	mg/L	mg/L	mg/L	mg/L	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	100.00	100.00	100.00	100.00
KCl	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00
MgSO ₄ (anhydrous)	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80
NaCl	6000.00	6000.00	6000.00	6000.00	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	800.70	800.70	800.70	800.70
NaHCO ₃	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00	--	--
Amino Acids									
L-Arginine	200.00	200.00	200.00	200.00	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	56.82	56.82	56.82	56.82
L-Aspartic acid	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
L-Cystine • 2HCl	65.20	65.20	65.20	65.20	65.20	--	65.20	65.20	65.20
L-Glutamic acid	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
L-Glutamine	300.00	300.00	300.00	--	--	--	--	300.00	--
Glycine	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
L-Histidine	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
Hydroxy-L-proline	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
L-Isoleucine	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
L-Leucine	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
L-Lysine • HCl	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
L-Methionine	15.00	15.00	15.00	15.00	15.00	--	15.00	15.00	15.00
L-Phenylalanine	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
L-Proline	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
L-Serine	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
L-Threonine	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
L-Tryptophan	5.00	5.00	5.00	5.00	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	28.83	28.83	28.83	28.83
L-Valine	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Vitamins									
Biotin	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
D-Calcium pantothenate	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Choline chloride	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Folic acid	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
i-Inositol	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00
Nicotinamide	1.00	1.00	1.00	1.00	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	1.00	1.00	1.00	1.00
Pyridoxine • HCl	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Riboflavin	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Thiamine • HCl	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Vitamin B ₁₂	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Other									
D-Glucose	2000.00	2000.00	--	2000.00	2000.00	2000.00	2000.00	2000.00	2000.00
Glutathione (reduced)	1.00	1.00	1.00	1.00	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	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	300.00	--	300.00
200 mM Solution (mL/L)	--	--	--	10.27	10.27	10.27	10.27	--	10.27
Specifications									
pH (before buffer)	--	--	--	--	--	--	--	8.0 ± 0.5	8.0 ± 0.5
pH	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	8.2 ± 0.5	8.1 ± 0.5
Osmolality (mOsm/kg)	276 ± 30	295 ± 0.2	273 ± 15	276 ± 30	288 ± 20	276 ± 30	276 ± 30	290 ± 30	290 ± 30
Grams of powder required to prepare 1L (1X Solution)	--	--	--	--	--	--	--	10.40	10.10