

McCoy's 5A Medium (Iwakata & Grace Modification)

Catalog No.	10-050 1X, Liquid McCoy's 5A	10-051 1X, Liquid McCoy's 5A	50-025 Powder McCoy's 5A
Inorganic Salts	mg/L	mg/L	mg/L
CaCl ₂ (anhydrous)	100.00	100.00	100.00
KCl	400.00	400.00	400.00
MgSO ₄ (anhydrous)	97.70	97.70	97.70
NaCl	6460.00	5960.00	6460.00
NaH ₂ PO ₄ ·H ₂ O	580.00	580.00	580.00
NaHCO ₃	2200.00	2200.00	—
Amino Acids			
L-Alanine	13.36	13.36	13.36
L-Arginine·HCl	42.14	42.14	42.14
L-Asparagine·H ₂ O	45.03	45.03	45.03
L-Aspartic acid	19.97	19.97	19.97
L-Cysteine·HCl·H ₂ O	35.14	35.14	35.14
L-Glutamic acid	22.10	22.10	22.10
L-Glutamine	219.20	219.20	219.20
L-Glycine	7.50	7.50	7.50
L-Histidine·HCl·H ₂ O	20.96	20.96	20.96
Hydroxy-L-proline	19.70	19.70	19.70
L-Isoleucine	39.36	39.36	39.36
L-Leucine	39.36	39.36	39.36
L-Lysine·HCl	36.54	36.54	36.54
L-Methionine	14.92	14.92	14.92
L-Phenylalanine	16.52	16.52	16.52
L-Proline	17.30	17.30	17.30
L-Serine	26.30	26.30	26.30
L-Threonine	17.90	17.90	17.90
L-Tryptophan	3.10	3.10	3.10
L-Tyrosine·2Na·2H ₂ O	26.12	26.12	26.12
L-Valine	17.60	17.60	17.60
Vitamins			
Ascorbic acid	0.50	0.50	0.50
Biotin	0.20	0.20	0.20
D-Calcium pantothenate	0.20	0.20	0.20
Choline chloride	5.00	5.00	5.00
Folic acid	10.00	10.00	10.00
i-Inositol	36.00	36.00	36.00
Nicotinamide	0.50	0.50	0.50
Nicotinic acid	0.50	0.50	0.50
<i>Para</i> -Aminobenzoic acid	1.00	1.00	1.00
Pyridoxine·HCl	1.00	1.00	1.00
Riboflavin	0.20	0.20	0.20
Thiamine·HCl	0.20	0.20	0.20
Vitamin B ₁₂	2.00	2.00	2.00
Other			
Bacto-peptone	600.00	600.00	600.00
D-Glucose	3000.00	3000.00	3000.00
Glutathione (reduced)	0.50	0.50	0.50
HEPES	—	5958.00	—
Phenol red, Na	10.00	10.00	10.00
Add			
NaHCO ₃ Powder (g/L)	—	—	2.20
7.5% Solution (mL/L)	—	—	29.33
Specifications			
pH (before buffer)	N/A	N/A	5.0 ± 0.5
pH (after buffer)	7.2 ± 0.2	7.2 ± 0.2 @ 20-25C	7.0 ± 0.5
Osmolality (mOsm)	290 ± 30	305 ± 30	290 ± 30
Grams of powder required to prepare 1L (1X Solution)	N/A	N/A	12.01