

Iscove's Modification of DMEM

Catalog No.	10-016 1X, Liquid Iscove's	15-016 1X, Liquid Iscove's	50-016 1X, Powder Iscove's	90-016 1X, Powder Iscove's
Inorganic Salts	mg/L	mg/L	mg/L	mg/L
CaCl ₂ (anhydrous)	165.00	165.00	165.00	165.00
KCl	330.00	330.00	330.00	330.00
KNO ₃	0.076	0.076	0.076	0.076
MgSO ₄ (anhydrous)	97.70	97.70	97.70	97.70
Na ₂ SeO ₃	0.0173	0.0173	0.0173	0.0173
NaCl	4505.00	4505.00	4505.00	4505.00
NaH ₂ PO ₄ • H ₂ O	125.00	125.00	125.00	125.00
NaHCO ₃	3024.00	3024.00	--	--
Amino Acids				
L-Alanine	25.00	25.00	25.00	25.00
L-Arginine • HCl	84.00	84.00	84.00	84.00
L-Asparagine • H ₂ O	28.40	28.40	28.40	28.40
L-Aspartic acid	30.00	30.00	30.00	30.00
L-Cystine • 2HCl	91.24	91.24	91.24	91.24
L-Glutamic acid	75.00	75.00	75.00	75.00
L-Glutamine	584.00	--	584.00	--
Glycine	30.00	30.00	30.00	30.00
L-Histidine • HCl • H ₂ O	42.00	42.00	42.00	42.00
L-Isoleucine	105.00	105.00	105.00	105.00
L-Leucine	105.00	105.00	105.00	105.00
L-Lysine • HCl	146.00	146.00	146.00	146.00
L-Methionine	30.00	30.00	30.00	30.00
L-Phenylalanine	66.00	66.00	66.00	66.00
L-Proline	40.00	40.00	40.00	40.00
L-Serine	42.00	42.00	42.00	42.00
L-Threonine	95.00	95.00	95.00	95.00
L-Tryptophan	16.00	16.00	16.00	16.00
L-Tyrosine • 2Na • 2H ₂ O	103.79	103.79	103.79	103.79
L-Valine	94.00	94.00	94.00	94.00
Vitamins				
Biotin	0.013	0.013	0.013	0.013
D-Calcium pantothenate	4.00	4.00	4.00	4.00
Choline chloride	4.00	4.00	4.00	4.00
Folic acid	4.00	4.00	4.00	4.00
i-Inositol	7.20	7.20	7.20	7.20
Nicotinamide	4.00	4.00	4.00	4.00
Pyridoxine • HCl	4.00	4.00	4.00	4.00
Riboflavin	0.40	0.40	0.40	0.40
Thiamine • HCl	4.00	4.00	4.00	4.00
Vitamin B ₁₂	0.013	0.013	0.013	0.013
Other				
D-Glucose	4500.00	4500.00	4500.00	4500.00
HEPES	5958.00	5958.00	5958.00	5958.00
Phenol red, Na	15.00	15.00	15.00	--
Sodium pyruvate	110.00	110.00	110.00	110.00
Add				
NaHCO ₃ Powder (g/L)	--	--	3.024	3.024
7.5% Solution (mL/L)	--	--	40.32	40.32
L-Glutamine Powder (mg/L)	--	584.00	--	584.00
200 mM Solution (mL/L)	--	20.00	--	20.00
Specifications				
pH (before buffer)	--	--	5.0 ± 0.5	4.9 ± 0.5
pH (after buffer)	7.2 ± 0.2	7.2 ± 0.2	7.0 ± 0.5	6.9 ± 0.5
Osmolality (mOsm)	287.5 ± 22.5	290 ± 30	290 ± 30	290 ± 30
Grams of powder required to prepare 1L (1X Solution)	--	--	17.67	17.07