

IMDM Liquid Medium Formula

Components	Concentration (mg/L)
Amino Acids	
Glycine	30
L-Alanine	25
L-Arginine hydrochloride	84
L-Asparagine (freebase)	25
L-Aspartic acid	30
L-Cystine 2HCl	91.4
L-Glutamic Acid	75
L-Glutamine	584
L-Histidine hydrochloride-H ₂ O	42
L-Isoleucine	105
L-Leucine	105
L-Lysine hydrochloride	146
L-Methionine	30
L-Phenylalanine	66
L-Proline	40
L-Serine	42
L-Threonine	95
L-Tryptophan	16
L-Tyrosine disodium salt	104
L-Valine	94
Vitamins	
Biotin	0.013
Choline chloride	4
D-Calcium pantothenate	4
Folic Acid	4
Niacinamide	4
Pyridoxal hydrochloride	4
Riboflavin	0.4
Thiamine hydrochloride	4
Vitamin B12	0.013
i-Inositol	7.2
Inorganic Salts	
Calcium Chloride (CaCl ₂) (anhyd.)	165
Magnesium Sulfate (MgSO ₄) (anhyd.)	97.67
Potassium Chloride (KCl)	330
Potassium Nitrate (KNO ₃)	0.076

Sodium Bicarbonate (NaHCO_3)	3024
Sodium Chloride (NaCl)	4505
Sodium Phosphate monobasic ($\text{NaH}_2\text{PO}_4\cdot\text{H}_2\text{O}$)	125
Sodium Selenite ($\text{Na}_2\text{SeO}_3\cdot 5\text{H}_2\text{O}$)	0.017
Other Components	
D-Glucose (Dextrose)	4500
HEPES	5958
Phenol Red	15
Sodium Pyruvate	110