

Product Data Sheet

IMDM, with L-Glutamine, w/o Supplements, Sterile-Filtered
Product No. GB-IMDM-500A

Product Specifications

CO2 concentration, optimum	7.0 %
pH	7.0 - 7.5
Osmolality	260 - 340 mOsm/kg
Colour and Appearance	Clear red orange solution
Endotoxin	< 1 EU/ml (< 0.1 ng/ml)
Cell Culture	Tested
Sterility	Tested
Storage	+2°C to +8°C protected from light

Formulation

Components	Concentration mg/l	Molecular Weight g/mol	Concentration mM
Amino Acids			
L-Alanine	25.00	89.09	0.28
L-Arginine HCl	84.00	210.66	0.40
L-Asparagine H ₂ O	28.40	150.13	0.19
L-Aspartic Acid	30.00	133.10	0.23
L-Cystine 2HCl	91.24	240.30	0.38
L-Glutamic Acid	75.00	147.13	0.51
L-Glutamine	584.00	146.15	4.00
Glycine	30.00	75.07	0.40
L-Histidine HCl H ₂ O	42.00	209.63	0.20
L-Isoleucine	105.00	131.17	0.80
L-Leucine	105.00	131.17	0.80
L-Lysine HCl	146.00	182.65	0.80
L-Methionine	30.00	149.21	0.20
L-Phenylalanine	66.00	165.19	0.40
L-Proline	40.00	115.13	0.35
L-Serine	42.00	105.09	0.40
L-Threonine	95.00	119.12	0.80
L-Tryptophan	16.00	204.23	0.0783
L-Tyrosine 2Na 2H ₂ O	103.79	225.15	0.46



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L-Valine	94.00	117.15	0.80
Vitamins			
D-Biotin	0.013	244.31	0.000053
Choline chloride	4.00	139.62	0.0286
D-Calcium Pantothenate	4.00	476.53	0.0084

Components	Concentration mg/l	Molecular Weight g/mol	Concentration mM
Folic Acid	4.00	441.40	0.0091
myo-Inositol	7.20	180.16	0.0400
Nicotinamide	4.00	122.12	0.0328
Pyridoxal HCl	4.00	203.62	0.0196
Riboflavin	0.40	376.36	0.0011
Thiamine HCl	4.00	337.27	0.0119
Vitamin B12	0.013	1355.37	0.0000096
Inorganic Salts			
Calcium Chloride 2H ₂ O	219.00	147.01	1.49
Magnesium Sulfate	97.67	120.37	0.81
Potassium Chloride	330.00	74.55	4.43
Potassium Nitrate	0.076	101.10	0.000752
Sodium Bicarbonate	3024.00	84.01	36.00
Sodium Chloride	4505.00	58.44	77.09
Sodium Phosphate Monobasic Anhydrous	109.00	119.98	0.91
Sodium Selenite	0.017	263.01	0.000065
Other Components			
D-Glucose	4500.00	180.16	24.98
HEPES	5958.00	238.31	25.00
Phenol Red Sodium Salt	16.0	376.36	0.04
Sodium Pyruvate	110.00	110.04	1.00

Precautions and Disclaimer

This product is for research use only.