Iscove's Modified Dulbecco`s Medium (IMDM)

Filtration/ Treatment	With L-Glutamine, without Supplements
Product Code	MCL-049-500ML
Shelf Life	12 months from DOM
Storage Temperature	+2 to +8°C
Shipping Temperature	ambient

QC Specifications

Physical and Chemical Analysis	**Method**	**Specifications**	**Units**
Appearance	Visual	Clear, red solution	n/a
pH at RT	Electronic pH Meter	6.9 - 7.5	n/a
Osmolality	Osmometer	260 - 340	mOsm/kg
Endotoxin	LAL Kinetic	≤ 1.0	EU/ml
Sterility			
Aerobic Bacteria	Internally Validated	Not detected	n/a
Anaerobic Bacteria	Internally Validated	Not detected	n/a
Fungi (Yeast & Mold)	Internally Validated	Not detected	n/a
Mycoplasma	qPCR	Not detected	n/a
Cell culture			
Cell growth promotion	Passage test	3 passages	n/a
Viability	Trypan Blue Exclusion	≥75%	n/a

Formulation

Amino Acids	**CAS number**	**Concentration (mg/L)**
Glycine	56-40-6	30.00
L-Alanine	56-41-7	25.00
L-Arginine, Hydrochloride	1119-34-2	84.00
L-Asparagine, Monohydrate	5794-13-8	25.00
L-Aspartic Acid	56-84-8	30.00
L-Cystine, Dihydrochloride	30925-07-6	91.20
L-Glutamine	56-85-9	584.00
L-Histidine, Hydrochloride, Monohydrate	5934-29-2	42.00
L-Isoleucine	73-32-5	105.00
L-Leucine	61-90-5	105.00
L-Lysine, Hydrochloride	657-27-2	146.00
L-Methionine	63-68-3	30.00
L-Phenylalanine	63-91-2	66.00
L-Proline	147-85-3	40.00
L-Serine	56-45-1	42.00
L-Threonine	72-19-5	95.00
L-Tryptophan	73-22-3	16.00
L-Tyrosine, Disodium, Dihydrate	122666-87-9	104.00
L-Valine	72-18-4	94.00
Vitamins		
Biotin	58-85-5	0.01
Choline Chloride	67-48-1	4.00
D-Calcium Pantothenate	137-08-6	4.00
Folic Acid	59-30-3	4.00
Myo-Inositol	87-89-8	7.20
Niacinamide	98-92-0	4.00
Pyridoxal, Hydrochloride	65-22-5	4.00
Riboflavin	83-88-5	0.40
Thiamine, Hydrochloride	67-03-8	4.00
Vitamin B12	68-19-9	0.01

Other Components		
D-Glucose, Anhydrous	50-99-7	4500.00
Phenol Red, Sodium Salt	34487-61-1	15.00
Pyruvic Acid, Sodium Salt	113-24-6	110.00
Inorganic Salts		
Calcium Chloride, Anhydrous	10043-52-4	165.00
Magnesium Sulfate, Anhydrous	7487-88-9	97.67
Potassium Chloride	7447-40-7	330.00
Potassium Nitrate	7757-79-1	0.08
Selenious Acid	7783-00-8	0.02
Sodium Bicarbonate	144-55-8	3024.00
Sodium Chloride	7647-14-5	4500.00
Sodium Phosphate, Monobasic, Monohydrate	10049-21-5	125.00

Product Use: This product is intended for laboratory use only.