
	Document ID:	TDS-MCP-051-50L	Version:	002
	Date of Issue:	10-JAN-2025	Approved by:	Dr. Iman Kamranfar
	Review Date:	10-JAN-2027	Signature:	
	Title:	TECHNICAL DATASHEET		

McCoy's 5A Medium



Filtration/ Treatment	With L-Glutamine
Product Code	MCP-051-50L
Shelf Life	4 Years from DOM
Storage Temperature	+2 to +8°C
Shipping Temperature	ambient

QC Specifications

Physical and Chemical Analysis	Method	Specifications	Units
Appearance	Visual	Off-white to pink/orange powder	n/a
Solubility	Internally validated	11.44 in ≤ 30 minutes	g/L
Moisture Content	Loss-on drying	≤ 2.0 %	n/a
Particle Size (100 mesh)	Internally validated	≥ 90%	n/a
pH without NaHCO ₃	Electronic pH Meter	Record	n/a
pH with NaHCO ₃	Electronic pH Meter	Record	n/a
Osmolality without NaHCO ₃	Osmometer	Record	mOsm/kg
Osmolality with NaHCO ₃	Osmometer	Record	mOsm/kg
Endotoxin	LAL Kinetic	≤ 1.0	EU/ml
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	7.51
L-Alanine	56-41-7	13.36
L-Arginine, Hydrochloride	1119-34-2	42.14
L-Asparagine, Monohydrate	5794-13-8	45.03
L-Aspartic Acid	56-84-8	19.97
L-Cystine, Hydrochloride, Monohydrate	30925-07-6	35.14
L-Glutamine	56-85-9	219.20
L-Histidine, Hydrochloride, Monohydrate	5934-29-2	20.96
L-Hydroxyproline	51-35-4	19.67
L-Isoleucine	73-32-5	39.36
L-Leucine	61-90-5	39.36
L-Lysine, Hydrochloride	657-27-2	36.54
L-Methionine	63-68-3	14.92
L-Phenylalanine	63-91-2	16.52
L-Proline	147-85-3	17.27
L-Serine	56-45-1	26.28
L-Threonine	72-19-5	17.87
L-Tryptophan	73-22-3	3.06
L-Tyrosine, Disodium, Dihydrate	122666-87-9	26.12
L-Valine	72-18-4	17.57
Vitamins		
Biotin	58-85-5	0.20
Choline Chloride	67-48-1	5.00
D-Calcium Pantothenate	137-08-6	0.20
Folic Acid	59-30-3	10.00
L-Ascorbic Acid	50-81-7	0.50
Myo-Inositol	87-89-8	36.00
Niacinamide	98-92-0	0.50
Nicotinic Acid	59-67-6	0.50

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para-Aminobenzoic Acid	150-132-0	1.0
Pyridoxal, Hydrochloride	65-22-5	0.50
Pyridoxine, Hydrochloride	58-56-0	0.50
Riboflavin	83-88-5	0.20
Thiamine, Hydrochloride	67-03-8	0.20
Vitamin B12	68-19-9	2.00
Other Components		
D-Glucose, Anhydrous	50-99-7	3000.00
Glutathione, Reduced	70-18-8	0.50
Meat Peptone	91079-38-8	600.00
Phenol Red, Sodium Salt	34487-61-1	10.00
Inorganic Salts		
Calcium Chloride, Dihydrate	10035-04-8	132.50
Magnesium Sulfate, Anhydrous	7558-79-4	97.68
Potassium Chloride	7447-40-7	400.00
Sodium Chloride	7647-14-5	6460.00
Sodium Phosphate, Monobasic, Monohydrate	10049-21-5	580.00

Sodium Bicarbonate is not included in the powdered media (2200.00 mg/L).

Gram of powder required for 1 L medium: 11.436.

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