
	Document ID:	TDS-MCL-069-500ML	Version:	003
	Date of Issue:	10-JAN-2023	Approved by:	Dr. Iman Kamranfar
	Review Date:	10-JAN-2025	Signature:	
	Title:	<b>TECHNICAL DATASHEET</b>		

### Leibovitz's L-15 Medium



Filtration/ Treatment	With L-Glutamine
Product Code	MCL-069-500ML
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	280 - 320	mOsm/kg
Endotoxin	LAL Kinetic	≤ 1.0	EU/ml
<b>Sterility</b>			
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
<b>Cell culture</b>			
Cell growth promotion	Passage test	2 passages	n/a
Viability	Trypan Blue Exclusion	≥75%	n/a

### Formulation

Amino Acids	CAS number	Concentration (mg/L)
Glycine	56-40-6	200.00
L-Alanine	56-41-7	225.00
L-Arginine, Hydrochloride	1119-34-2	500.00
L-Asparagine, Anhydrous	70-47-3	250.00
L-Cysteine	52-90-4	120.00
L-Glutamine	56-85-9	300.00
L-Histidine, Hydrochloride, Monohydrate	5934-29-2	337.79
L-Isoleucine	73-32-5	250.00
L-Leucine	61-90-5	125.00
L-Lysine, Hydrochloride	657-27-2	93.80
L-Methionine	63-68-3	75.00
L-Phenylalanine	63-91-2	125.00
L-Serine	56-45-1	200.00
L-Threonine	72-19-5	300.00
L-Tryptophan	73-22-3	20.00
L-Tyrosine, Disodium, Dihydrate	122666-87-9	432.46
L-Valine	72-18-4	100.00
<b>Vitamins</b>		
Choline Chloride	67-48-1	1.00
D-Calcium Pantothenate	6381-63-1	1.00
Myo-Inositol	87-89-8	2.00
Niacinamide	98-92-0	1.00
Pyridoxal, Hydrochloride	65-22-5	1.00
Riboflavin	83-88-5	0.11
Thiamine, Hydrochloride	67-03-8	1.00
Folic Acid	59-30-3	1.00
<b>Other Components</b>		
D-Galactose	59-23-4	900.00
Phenol Red, Sodium Salt	34487-61-1	10.62

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Pyruvic Acid, Sodium Salt	113-24-6	550.00
<b>Inorganic Salts</b>		
Calcium Chloride, Anhydrous	10043-52-4	140.00
Magnesium Chloride, Anhydrous	7786-30-3	93.70
Magnesium Sulfate, Anhydrous	7558-79-4	97.67
Potassium Chloride	7447-40-7	400.00
Potassium Phosphate, Monobasic, Anhydrous	7778-770	60.00
Sodium Chloride	7647-14-5	8000.00
Sodium Phosphate, Dibasic, Anhydrous	7558-79-4	190.00

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