

	Document ID:	TDS-MCD-001-500ML	Version:	001
	Date of Issue:	14-SEP-2026	Approved by:	Dr. Iman Kamranfar
	Review Date:	10-JAN-2027	Signature:	
	Title:	TECHNICAL DATASHEET		

MCDB 131, Without L-Glutamine

Filtration, Treatment	Without L-Glutamine, Sterile filtered.
Product Code	MCD-001-500ML
Shelf Life	24 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	Eur. Ph. 2.2.3	7.2 - 7.7	n/a
Osmolality	Eur. Ph. 2.2.35	260-320	mOsm/kg
Endotoxin	Eur. Ph. 2.6.14 (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	Eur. Ph.2.6.7 (qPCR)	Not detected	n/a

Formulation

Amino Acids	CAS number	Concentration (mg/L)
Glycine	56-40-6	2.30
L-Alanine	56-41-7	2.70
L-Arginine, Hydrochloride	1119-34-2	63.20
L-Asparagine, Monohydrate	5794-13-8	15.00
L-Aspartic acid	56-84-8	13.30
L-Cysteine, Hydrochloride, Monohydrate	7048-04-6	35.00
L-Glutamic acid	56-86-0	4.40
L-Histidine, Hydrochloride, Monohydrate	5934-29-2	42.00
L-Isoleucine	73-32-5	66.00
L-Leucine	61-90-5	131.00
L-Lysine, Hydrochloride	657-27-2	182.00
L-Methionine	63-68-3	15.00
L-Phenylalanine	63-91-2	33.00
L-Proline	147-85-3	11.50
L-Serine	56-45-1	32.00
L-Threonine	72-19-5	12.00
L-Tryptophan	73-22-3	4.10
L-Tyrosine	60-18-4	18.10
L-Valine	72-18-4	117.00
Vitamins		
D-Biotin	58-85-5	0.01
Choline Chloride	67-48-1	14.00
D-Calcium Pantothenate	137-08-6	12.00
Folinic acid calcium salt hydrate	1492-18-8	0.60
Myo-Inositol	87-89-8	7.20
Niacinamide	98-92-0	6.10
Pyridoxine, Hydrochloride	58-56-0	2.10
Riboflavin	83-88-5	0.04
Thiamine, Hydrochloride	67-03-8	3.40
Vitamin B12	68-19-9	0.01
Other Components		

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Adenine	73-24-5	0.135
D-Glucose, Anhydrous	50-99-7	1000.00
Lipoic Acid	1077-28-7	0.0021
Phenol Red, Sodium Salt	34487-61-1	12.40
Putrescine dihydrochloride	333-93-7	2.0E-4
Sodium pyruvate	113-24-6	110.00
Thymidine	50-89-5	0.024
Inorganic Salts	CAS number	Concentration (mg/L)
Ammonium molybdate tetrahydrate	12054-85-2	0.0037
Ammonium metavanadate	7803-55-6	6.0E-4
Calcium Chloride, Anhydrous	10043-52-4	235.00
Cupric sulfate	7758-98-7	0.0012
Ferric sulfate	15244-10-7	0.283
Magnesium Sulfate, Anhydrous	7487-88-9	2464.00
Manganese sulfate monohydrate	10034-96-5	0.0002
Nickelous chloride hexahydrate	7791-20-0	7.1E-5
Potassium Chloride	7447-40-7	298.00
Selenious Acid	7783-00-8	0.0038
Sodium Bicarbonate	144-55-8	1176.00
Sodium Chloride	7647-14-5	6430.00
Sodium Meta Silicate	6834-92-0	2.80
Sodium Phosphate dibasic	7558-79-4	134.00
Zinc sulfate monohydrate	7446-19-7	3.0E-4

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