

EU-010-500 Fetal Bovine Serum, Tetracycline Free

Product Name	Fetal Bovine Serum, Tetracycline Free		
Filtration/Treatment	Triple 0.1µm sterile filtered		
Origin	Guatemala		
Product Code	EU-010-500		
Shelf Life	5 Years from DOM		
Storage Temperature	<-15°C		
Shipping Temperature	dry ice		
Physical and Chemical Analysis	Method	Specifications	Results
Appearance	Visual	Clear yellow-amber	Clear straw-amber
pH	Electronic pH Meter	6.8 - 8.2	7.08
Osmolality	Osmometer	280 - 340	309 mOsm/kg
Endotoxin	LAL Kinetic	< 10	0.43 EU/ml
Free Hemoglobin	Colorimetric	< 25	18.13 mg/dl
Protein Profile			
Total Protein	IDEXX Catalyst One	3.0 - 4.5	3.75 g/dl
Albumin	IDEXX Catalyst One	1.4 - 3.4	1.71 g/dl
Globulin	IDEXX Catalyst One	0.4 - 2.4	1.45 g/dl
IgG	ELISA	< 400	120.70 µg/ml
Sterility			
Aerobic Bacteria	Internally Validated	Not detected	Not detected
Anaerobic Bacteria	Internally Validated	Not detected	Not detected
Fungi (Yeast & Mold)	Internally Validated	Not detected	Not detected
Mycoplasma	qPCR	Not detected	Not detected
Antibiotic Testing			
Tetracycline	IDEXX Snap Test	Not detected	Not detected
Oxytetracycline	IDEXX Snap Test	Not detected	Not detected
Chlortetracycline	IDEXX Snap Test	Not detected	Not detected
Virus Testing			
BVDV/MDV non-CPE	Cell Culture	Not detected	Not detected
BVDV/MDV CPE	Cell Culture	Not detected	Not detected
BHV-1/IBRV	qPCR	Not detected	Not detected
PIV-3	qPCR	Not detected	Not detected
Antibody Testing			
BVDV - Antibody Type 1	Detection of Antibodies (ELISA)	Test and report	n/a
BVDV - Antibody Type 2	Detection of Antibodies (ELISA)	Test and report	n/a

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Biochemistry			
Aspartate Aminotransferase (AST)	IDEXX Catalyst One	Record	33 IU/L
Alanine Aminotransferase (ALT)	IDEXX Catalyst One	Record	10 IU/L
Lactate Dehydrogenase (LDH)	IDEXX Catalyst One	Record	666 IU/L
Alkaline Phosphatase (ALKP)	IDEXX Catalyst One	Record	419 IU/L
Gamma-Glutamyl Trans. (GGT)	IDEXX Catalyst One	Record	7 IU/L
Cholesterol (CHOL)	IDEXX Catalyst One	Record	33 mg/dl
Glucose (GLU)	IDEXX Catalyst One	Record	71 mg/dl
Urea (BUN)	IDEXX Catalyst One	Record	37 mg/dl
Creatinine (CREA)	IDEXX Catalyst One	Record	3.0 mg/dl
Uric Acid (URIC)	IDEXX Catalyst One	Record	2.2 mg/dl
Calcium (Ca)	IDEXX Catalyst One	Record	14.3 mg/dl
Phosphorus (PHOS)	IDEXX Catalyst One	Record	8.8 mg/dl
Total Bilirubin (TBIL)	IDEXX Catalyst One	Record	0.19 mg/dl
Magnesium (Mg)	IDEXX Catalyst One	Record	n/a
Sodium (Na)	IDEXX Catalyst One	Record	134 mEq/L
Potassium (K)	IDEXX Catalyst One	Record	11.4 mEq/L
Chloride (CL)	IDEXX Catalyst One	Record	99 mEq/L
Cell Culture Testing - Option 1			
Cell Line	Method	Specifications	Results
L-929, HELA, MRC-5	Morphology	Tested vs. Control Serum	Scoring System 1
L-929, HELA, MRC-5	Density	Tested vs. Control Serum	Scoring System 2
L-929, HELA, MRC-5	Cell Count	Cell count [log10/ml]/dead cells vs. Control	Record
Scoring system			
Scoring system	Meaning		Results
1 - Morphology	Dead Cells		0
	Many Cells degenerate and many dead cells		1
	Cells partially degenerate and many dead cells		2
	Few cells degenerate and few dead cells		3
	Without pathological findings		4
2 - Density	Single cells/cell aggregates		0
	< 50% confluency		1
	50 - 90% confluency		2
	confluency		3
	overly confluent		4
Cell Culture Testing - Option 2			
Cell Line	Method	Specifications	Results
BHK-21, MRC-5	Multiple Passage - Records results vs. control at day: 0, 3, 6, 12	>75% of control growth	n/a
BHK-21, MRC-5	Plating Efficiency - Records results vs. control at day: 0, 3, 6, 12	>75% PE vs. control PE	n/a
BHK-21, MRC-5	Cloning Efficiency - Records results vs. control at day: 0, 3, 6, 12	>75% CE vs. control CE	n/a

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RECOMMENDED USE:**Storage**

To effectively preserve the integrity of animal serum, it should be stored frozen and protected from light. The recommended storage temperature is <-15°C.

Multiple thaw/freeze cycles should be avoided, as they will accelerate the degradation of serum nutrients and can encourage the formation of insoluble precipitates. For this reason, serum should never be stored in “frost-free” freezers. These types of freezers periodically warm themselves to avoid internal ice deposits and are detrimental to the stability of frozen serum products.

Suggested Thawing Procedure

1. Remove the serum bottles from the freezer and allow them to adjust to room temperature for approximately 10 minutes.
2. Place each container in a 30 to 37 °C water bath or incubator. Excessive temperatures will degrade heat labile nutrients. If using a water bath, prevent the bottle caps from being submerged.
3. Gently agitate the bottles every 10 – 15 minutes until the serum is completely thawed.

Efficient and Effective Usage

After thawing, use the serum promptly. Liquid serum may be stored refrigerated (2 to 8 °C) up to four weeks. To avoid thaw/freeze cycles or long periods of refrigeration, it is recommended that any unused serum be immediately dispensed into small, useful aliquots and refrozen for future use.

THIS PRODUCT IS NOT INTENDED FOR HUMAN OR ANIMAL CONSUMPTION OR THERAPEUTIC USE.

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