

Title:

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Date of Issue:	10-JAN-2022	Approved by:	Dr. Iman Kamranfar
Review Date:	10-JAN-2024	Signature:	With the second

**TECHNICAL DATA SHEET** 

	SPECIMEN		
Product Name	Foetal Bovine Serum		
Filtration/Treatment	Tetracycline Free		
Origin	Australia		
Product Codes	S-FBS-AU-085		
Shelf Life	5 Years from DOM		
Storage Temperature	<-15°C		
Shipping Temperature	dry ice		
Physical and Chemical Analysis	Method	Specifications	Units
Identity	Internally Validated	Bovine	n/a
Appearance	Visual	Clear yellow-amber	n/a
Specific Gravity	Mass Balance	> 1.01	g/ml
рН	Electronic pH Meter	6.8 - 8.2	n/a
Osmolality	Osmometer	260 - 340	mOsm/kg
Endotoxin	LAL Kinetic	< 10	EU/ml
Free Hemoglobin	Colorimetric	< 25	mg/dl
Protein Profile			
Total Protein	IDEXX Catalyst One	3.0 - 4.5	g/dl
Albumin	IDEXX Catalyst One	1.4 - 3.4	g/dl
Globulin	IDEXX Catalyst One	0.4 - 2.4	g/dl
IgG	ELISA	< 400	μg/ml
Electrophoretic Pattern	Capillary Electrophoresis	Normal	n/a
Sterility			
Sterility	Internally Validated	Pass	
Mycoplasma	qPCR	Not detected	n/a
Antibiotic Testing			
Tetracycline	IDEXX Snap Test	Not detected	n/a
Oxytetracycline	IDEXX Snap Test	Not detected	
Chlortetracycline	<u> </u>		n/a
	IDEXX Snap Test	Not detected	n/a n/a
	IDEXX Snap Test	Not detected	•
Virus Testing	IDEXX Snap Test	Not detected	•
Virus Testing BVDV/BHV-1/PI-3 (CPE)	IDEXX Snap Test  Cell Culture	Not detected  Not detected	•
	·		n/a
BVDV/BHV-1/PI-3 (CPE)	Cell Culture	Not detected	n/a n/a
BVDV/BHV-1/PI-3 (CPE) Rabies Virus	Cell Culture  qPCR	Not detected Not detected	n/a n/a n/a
BVDV/BHV-1/PI-3 (CPE) Rabies Virus Bluetongue Virus (BTV)	Cell Culture  qPCR  qPCR	Not detected Not detected Not detected	n/a n/a n/a n/a
BVDV/BHV-1/PI-3 (CPE) Rabies Virus Bluetongue Virus (BTV) BRSV	Cell Culture  qPCR  qPCR  qPCR	Not detected Not detected Not detected Not detected	n/a n/a n/a n/a n/a n/a n/a
BVDV/BHV-1/PI-3 (CPE) Rabies Virus Bluetongue Virus (BTV) BRSV Reo Virus	Cell Culture  qPCR  qPCR  qPCR  qPCR	Not detected Not detected Not detected Not detected Not detected Not detected	n/a n/a n/a n/a n/a n/a n/a n/a
BVDV/BHV-1/PI-3 (CPE) Rabies Virus Bluetongue Virus (BTV) BRSV Reo Virus BAV BoPV-1, -2	Cell Culture  qPCR  qPCR  qPCR  qPCR  qPCR	Not detected	n/a
BVDV/BHV-1/PI-3 (CPE) Rabies Virus Bluetongue Virus (BTV) BRSV Reo Virus BAV	Cell Culture  qPCR  qPCR  qPCR  qPCR  qPCR  qPCR  qPCR	Not detected	n/a
BVDV/BHV-1/PI-3 (CPE) Rabies Virus Bluetongue Virus (BTV) BRSV Reo Virus BAV BoPV-1, -2	Cell Culture  qPCR	Not detected	n/a
BVDV/BHV-1/PI-3 (CPE) Rabies Virus Bluetongue Virus (BTV) BRSV Reo Virus BAV BoPV-1, -2  Antibody Testing	Cell Culture  qPCR  qPCR  qPCR  qPCR  qPCR  qPCR  qPCR  qPCR  qPCR  Serum Neutralization Test (Cell Culture) or Detection of Antibodies (ELISA)  Serum Neutralization Test (Cell Culture) or Detection of Antibodies (ELISA)	Not detected	n/a  n/a  n/a  n/a  n/a  n/a  n/a  n/a
BVDV/BHV-1/PI-3 (CPE) Rabies Virus Bluetongue Virus (BTV) BRSV Reo Virus BAV BoPV-1, -2  Antibody Testing BVDV - Antibody Type 1	Cell Culture  qPCR  Serum Neutralization Test (Cell Culture) or Detection of Antibodies (ELISA)  Serum Neutralization Test (Cell Culture) or	Not detected Test and report	n/a  n/a  n/a  n/a  n/a  n/a  n/a  n/a



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Biochemistry			
Aspartate Aminotransferase (AST)	IDEXX Catalyst One	Record	U/L
Alanine Aminotransferase (ALT)	IDEXX Catalyst One	Record	U/L
Lactate Dehydrogenase (LDH)	IDEXX Catalyst One	Record	U/L
Alkaline Phosphatase (ALKP)	IDEXX Catalyst One	Record	U/L
Gamma-Glutamyl Trans. (GGT)	IDEXX Catalyst One	Record	U/L
Cholesterol (CHOL)	IDEXX Catalyst One	Record	mmol/L
Glucose (GLU)	IDEXX Catalyst One	Record	mmol/L
Urea (BUN)	IDEXX Catalyst One	Record	mmol/L
Creatinine (CREA)	IDEXX Catalyst One	Record	μmol/L
Uric Acid (URIC)	IDEXX Catalyst One	Record	μmol/L
Calcium (Ca)	IDEXX Catalyst One	Record	mmol/L
Phosphorus (PHOS)	IDEXX Catalyst One	Record	mmol/L
Total Bilirubin (TBIL)	IDEXX Catalyst One	Record	μmol/L
Magnesium (Mg)	IDEXX Catalyst One	Record	mmol/L
Sodium (Na)	IDEXX Catalyst One	Record	mmol/L
Potassium (K)	IDEXX Catalyst One	Record	mmol/L
Chloride (CL)	IDEXX Catalyst One	Record	mmol/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	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	Units
BHK-21, MRC-5	Multiple Passage - Records results vs. control at day: 0, 3, 6, 12	>75% of control growth	%
BHK-21, MRC-5	Plating Efficiency - Records results vs. control at day: 0, 3, 6, 12	>75% PE vs. control PE	%
BHK-21, MRC-5	Cloning Efficiency - Records results vs. control at day: 0, 3, 6, 12	>75% CE vs. control CE	%





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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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