

Title:

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Date of Issue:	21-DEC-2021	Approved by:	Dr. Iman Kamranfar
Review Date:	10-JAN-2023	Signature:	i Are

SPECIMEN

TECHNICAL DATA SHEET

Foetal Bovine Serum Ultra low IgG Brazil				
Brazil				
		Brazil		
S-FBS-SA-055				
5 Years from DOM				
<-15°C				
dry ice				
Method	Specifications	Units		
Internally Validated	Bovine	n/a		
Visual	Clear yellow-amber	n/a		
Mass Balance	> 1.01	g/ml		
Electronic pH Meter	6.8 - 8.2	n/a		
Osmometer	260 - 340	mOsm/kg		
LAL Kinetic	< 10	EU/ml		
Colorimetric	< 25	mg/dl		
IDEXX Catalyst One	3.0 - 4.5	g/dl		
IDEXX Catalyst One	1.4 - 3.4	g/dl		
IDEXX Catalyst One	0.4 - 2.4	g/dl		
ELISA	< 5	μg/ml		
Capillary Electrophoresis	Normal	n/a		
	Pass			
qPCR	Not detected	n/a		
LIBERRY S. T	 			
· ·	•	n/a		
		n/a		
IDEXX Snap Test	rest and report	n/a		
Cell Culture	Not detected	n/a		
		n/a		
· ·		n/a		
		n/a		
7: -11		.,, 0		
Serum Neutralization Test (Cell Culture) or Detection of Antibodies (ELISA)	Test and report	n/a		
Serum Neutralization Test (Cell Culture) or Detection of Antibodies (ELISA)	Test and report	n/a		
Detection of Antibodies (ELISA)	Test and report	n/a		
	Method Internally Validated Visual Mass Balance Electronic pH Meter Osmometer LAL Kinetic Colorimetric IDEXX Catalyst One IDEXX Catalyst One IDEXX Catalyst One ELISA Capillary Electrophoresis Internally Validated qPCR IDEXX Snap Test I	Method Specifications		



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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	>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.

