

Title:	TECHNICAL DATASHEET		
Review Date:	10-JAN-2025	Signature:	Are
Date of Issue:	10-JAN-2023	Approved by:	Dr. Iman Kamranfar
Document ID:	TDS-S-FBS-AU-085	Version:	006

Foetal Bovine Serum

Filtration, Treatment	Tetracycline Free
Origin	Australia
Product Code	S-FBS-AU-085
Shelf Life	5 years from DOM
Storage Temperature	<-15°C
Shipping Temperature	dry ice

QC Specifications

Physical and Chemical Analysis	Method	Specifications	Units
Appearance	Visual	Clear yellow-amber	n/a
Identity	Internally Validated	Bovine	n/a
pH at RT	Electronic pH Meter	6.8 - 8.2	n/a
Osmolality	Osmometer	260 - 340	mOsm/k
Endotoxin	LAL Kinetic	< 10.0	EU/ml
Free Hemoglobin	Colorimetric	< 25.0	mg/dl
Specific Gravity	Mass Balance	> 1.01	g/ml
	1		
Sterility			
Sterility	Internally Validated	Pass	n/a
Mycoplasma	qPCR	Not detected	n/a
			•
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
Antibiotic Testing			
Tetracycline	IDEXX Snap Test	Test and report	n/a
Oxytetracycline	IDEXX Snap Test	Test and report	n/a
Chlortetracycline	IDEXX Snap Test	Test and report	n/a
Virus Testing	•		
BVDV/BHV-1/PI-3 (CPE)	Cell Culture	Not detected	n/a
Rabies Virus	qPCR	Not detected	n/a
Bluetongue Virus (BTV)	qPCR	Not detected	n/a
BRSV	qPCR	Not detected	n/a
Reo Virus	qPCR	Not detected	n/a
BAV	qPCR	Not detected	n/a
BoPV-1, -2	qPCR	Not detected	n/a
Antibody Testing			
	Serum Neutralization		
BVDV - Antibody Type 1	Test (Cell Culture) or	Test and report	n/a
	Detection of Antibodies		1.72
	(ELISA)		
	Serum Neutralization		
BVDV - Antibody Type 2	Test (Cell Culture) or Detection of Antibodies	Test and report	n/a
	(ELISA)		
	Detection of Antibodies		
BHV-1	(ELISA)	Test and report	n/a
	Detection of Antibodies		_
PI-3	(ELISA)	Test and report	n/a
	1,22.07.17	l .	ı
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
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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
Chloride (CL)	IDEAX Catalyst One	Record	IIIIIIOI/ L
Cell Culture Testing - Option 1			
Cell Line	Method	Specifications	Results
Cell Line	Method	Specifications	-
L-929, HeLa, MRC-5	Morphology	Tested vs. Control Serum	Scoring
			System 1
L-929, HeLa, MRC-5	Density	Tested vs. Control Serum	Scoring
		Call accept [last10/mil]/dasid calls us	System 2
L-929, HeLa, MRC-5	Cell Count	Cell count [log10/ml]/dead cells vs.	Record
	+ .	Control	
Scoring system	Meaning		Results
	Dead Cells		0
	Many Cells degenerate		1
	and many dead cells		
	Cells partially		2
1 - Morphology	degenerate and many	· ·	
	dead cells		
	Few cells degenerate		3
	and few dead cells		
	Without pathological		4
	findings		
	Single cells/cell		0
	aggregates		1
2 - Density	< 50% confluency		1
•	50 - 90% confluency		2
	confluency		3
	overly confluent		4
Cell Culture Testing - Option 2			
Cell Line	Method	Specifications	Units
	Multiple Passage -		
BHK-21, MRC-5	Records results	>75% of control growth	%
BIII 21, WIIIC 3	vs. control at day: 0, 3,	77370 or control growth	70
	6, 12		
	Plating Efficiency -		
BHK-21, MRC-5	Records results	>75% PE vs. control PE	%
Dinc 21, Mine 3	vs. control at day: 0, 3,	7,576 12 75. 66114 011 12	/"
	6, 12		
	Cloning Efficiency -		
BHK-21, MRC-5	Records results	>75% CE vs. control CE	%
DITA 21, WINC-3	vs. control at day: 0, 3,	- , 5,0 CE V3. CONTROL CE	/0
	6, 12		



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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.

Product use: This product is not intended for human or animal consumption or therapeutic use.