

Document ID: Date of Issue:	TDS-S-FBS-AU-055	Version:	006 Dr. Iman Kamranfar
Review Date:		Signature:	DI: Illian Kamilania
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Title:	TECHNICAL DATASHEET		

Foetal Bovine Serum

Filtration, Treatment	Ultra low IgG
Origin	Australia
Product Code	S-FBS-AU-055
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/kg
Endotoxin	LAL Kinetic	< 10.0	EU/ml
Free Hemoglobin	Colorimetric	< 25.0	mg/dl
Specific Gravity	Mass Balance	> 1.01	g/ml
	•		
Sterility			
Sterility	Internally Validated	Pass	n/a
Mycoplasma	qPCR	Not detected	n/a
			<u> </u>
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
lgG	ELISA	< 5	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	T = 0 = 1	1	
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
Antihadu Tastina		1	
Antibody Testing	Serum Neutralization		
BVDV - Antibody Type 1	Test (Cell Culture) or Detection of Antibodies (ELISA)	Test and report	n/a
BVDV - Antibody Type 2	Serum Neutralization Test (Cell Culture) or Detection of Antibodies (ELISA)	Test and report	n/a
BHV-1	Detection of Antibodies (ELISA)	Test and report	n/a
PI-3	Detection of Antibodies (ELISA)	Test and report	n/a
Dia chamistus		I	<u> </u>
Biochemistry	IDENA Catal at O	Decord	11/1
Aspartate Aminotransferase (AST)	IDEXX Catalyst One	Record	U/L
Alanine Aminotransferase (ALT)	IDEXX Catalyst One	Record	U/L
Lastata Dabudraga (LDII)	IDEVV Catalizat Oct		
Lactate Dehydrogenase (LDH) Alkaline Phosphatase (ALKP)	IDEXX Catalyst One IDEXX Catalyst One	Record Record	U/L 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
chioride (CE)	IDEAX Catalyst One	Record	IIIIIIOI/ L
Cell Culture Testing - Option 1			
Cell Line	Method	Specifications	Results
Cell Lille	Wethou	Specifications	-
L-929, HeLa, MRC-5	Morphology	Tested vs. Control Serum	Scoring System 1
			Scoring
L-929, HeLa, MRC-5	Density	Tested vs. Control Serum	_
		Cell count [log10/ml]/dead cells vs.	System 2
L-929, HeLa, MRC-5	Cell Count	Control	Record
Coording avertous	Magning	Control	Results
Scoring system	Meaning Dead Cells		0
			0
	Many Cells degenerate		1
	and many dead cells		
	Cells partially degenerate and many		2
1 - Morphology	dead cells		2
	Few cells degenerate		
	and few dead cells		3
	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	Backend	Considerations	I I nite
Cell Line	Method	Specifications	Units
	Multiple Passage -		
BHK-21, MRC-5	Records results	>75% of control growth	%
	vs. control at day: 0, 3,	_	
	6, 12 Plating Efficiency -		
BHK-21, MRC-5	Records results	>75% PE vs. control PE	%
	vs. control at day: 0, 3,		
	6, 12		+
	Cloning Efficiency -		
BHK-21, MRC-5	Records results	>75% CE vs. control CE	%
	vs. control at day: 0, 3,		
	6, 12	1	



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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.