

	TDS-S-FBS-AU-015	Version:	006
Date of Issue:	10-JAN-2023	Approved by:	Dr. Iman Kamranfar
Review Date:	10-JAN-2025	Signature:	-Ar
Title:	TECHNICAL DATASHEET		

# **Foetal Bovine Serum**

Filtration, Treatment	Triple 0.1µm sterile filtered
Origin	Australia
Product Code	S-FBS-AU-015
Shelf Life	5 years from DOM
Storage Temperature	<-15°C
Shipping Temperature	dry ice

# **QC Specifications**

Method	Specifications	Units
Visual	Clear yellow-amber	n/a
Internally Validated	Bovine	n/a
Electronic pH Meter	6.8 - 8.2	n/a
Osmometer	260 - 340	mOsm/kg
LAL Kinetic	< 10.0	EU/ml
Colorimetric	< 25.0	mg/dl
Mass Balance	> 1.01	g/ml
Eur. Ph. 2.6.1	Pass	n/a
qPCR	Not detected	n/a
IDEXX Catalyst One		g/dl
IDEXX Catalyst One		g/dl
IDEXX Catalyst One	0.4 - 2.4	g/dl
ELISA	< 400	μg/ml
Capillary Electrophoresis	Normal	n/a
		-
IDEVV Coop Toot	Toot and report	/-
·		n/a
· · · · · · · · · · · · · · · · · · ·	· ·	n/a
IDEXX Snap Test	lest and report	n/a
Cell Culture	Not detected	n/a
		n/a
_ · ·		n/a
		n/a
<u>'</u>		n/a
·		n/a
•	1	n/a
] q. o	. Tot detected	1.,, 5
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
Detection of Antibodies (ELISA)	Test and report	n/a
		-
IDEVV Catalization	Dogard	11/1
•		U/L
•		U/L
IDEXX Catalyst One	Record	U/L
IDEXX Catalyst One	Record	U/L
	Visual Internally Validated Electronic pH Meter Osmometer LAL Kinetic Colorimetric Mass Balance  Eur. Ph. 2.6.1 qPCR  IDEXX Catalyst One IDEXX Catalyst One IDEXX Catalyst One ELISA Capillary Electrophoresis  IDEXX Snap Test IDEXX Snap Test IDEXX Snap Test IDEXX Snap Test QPCR qPCR qPCR qPCR qPCR qPCR qPCR qPCR q	Visual Clear yellow-amber Internally Validated Bovine  Electronic pH Meter 6.8 - 8.2  Osmometer 260 - 340  LAL Kinetic < 10.0  Colorimetric < 25.0  Mass Balance > 1.01  Eur. Ph. 2.6.1 Pass qPCR Not detected  IDEXX Catalyst One 1.4 - 3.4  IDEXX Catalyst One 1.4 - 3.4  IDEXX Catalyst One 0.4 - 2.4  ELISA < 400  Capillary Electrophoresis Normal  IDEXX Snap Test Test and report  Test and report  Cell Culture Not detected  qPCR Not detected  qPCR Not detected  qPCR Not detected  Test and report  Test and report



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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.