

Document ID:	TDS-S-FBS-NL-045	Version:	007
Date of Issue:	10-JAN-2025	Approved by:	Dr. Iman Kamranfar
Review Date:	10-JAN-2027	Signature:	ille
Title:	TECHNICAL DATASHEET		

Foetal Bovine Serum

Filtration, Treatment	atment Charcoal stripped	
Origin	The Netherlands	
Product Code	S-FBS-NL-045	
Shelf Life	5 years from DOM	
Storage Temperature	<-15°C	
Shipping Temperature	dry ice	

QC Specifications

/isual Internally Validated Electronic pH Meter Dsmometer AL Kinetic Colorimetric Mass Balance Internally Validated IPCR IDEXX Catalyst One ILISA Capillary Electrophoresis	Clear yellow-amber Bovine 6.8 - 8.2 260 - 340 < 10.0 < 25.0 > 1.01 Pass Not detected 3.0 - 4.5 1.4 - 3.4 0.4 - 2.4 < 400 Normal	n/a n/a n/a n/a n/a mOsm/kg EU/ml mg/dl g/ml n/a n/a g/dl g/dl g/dl g/dl μg/ml n/a
Electronic pH Meter Demometer AL Kinetic Colorimetric Mass Balance Internally Validated IPCR DEXX Catalyst One DEXX Catalyst One DEXX Catalyst One ELISA Capillary Electrophoresis	6.8 - 8.2 260 - 340 < 10.0 < 25.0 > 1.01 Pass Not detected 3.0 - 4.5 1.4 - 3.4 0.4 - 2.4 < 400	n/a mOsm/kg EU/mI mg/dI g/mI n/a n/a g/dI g/dI g/dI g/dI g/dI g/dI μg/mI
Osmometer AL Kinetic Colorimetric Mass Balance Internally Validated IPCR DEXX Catalyst One	260 - 340 < 10.0 < 25.0 > 1.01 Pass Not detected 3.0 - 4.5 1.4 - 3.4 0.4 - 2.4 < 400	mOsm/kg EU/ml mg/dl g/ml n/a n/a g/dl g/dl g/dl g/dl μg/ml
AL Kinetic Colorimetric Mass Balance Internally Validated IPCR DEXX Catalyst One DEXX Catalyst One DEXX Catalyst One ELISA Capillary Electrophoresis	< 10.0 < 25.0 > 1.01 Pass Not detected 3.0 - 4.5 1.4 - 3.4 0.4 - 2.4 < 400	EU/ml mg/dl g/ml n/a n/a n/a g/dl g/dl g/dl μg/ml
colorimetric Mass Balance Internally Validated IPCR DEXX Catalyst One DEXX Catalyst One DEXX Catalyst One ELISA Capillary Electrophoresis	<pre>< 25.0 > 1.01 Pass Not detected 3.0 - 4.5 1.4 - 3.4 0.4 - 2.4 < 400</pre>	EU/ml mg/dl g/ml n/a n/a n/a g/dl g/dl g/dl μg/ml
nternally Validated PPCR DEXX Catalyst One DEXX Catalyst One DEXX Catalyst One ELISA Capillary Electrophoresis	> 1.01 Pass Not detected 3.0 - 4.5 1.4 - 3.4 0.4 - 2.4 < 400	mg/dl g/ml n/a n/a g/dl g/dl g/dl μg/ml
nternally Validated IPCR DEXX Catalyst One DEXX Catalyst One DEXX Catalyst One ELISA Capillary Electrophoresis	Pass Not detected 3.0 - 4.5 1.4 - 3.4 0.4 - 2.4 < 400	g/ml n/a n/a g/dl g/dl g/dl ug/ml
DEXX Catalyst One DEXX Catalyst One DEXX Catalyst One DEXX Catalyst One ELISA Capillary Electrophoresis	3.0 - 4.5 1.4 - 3.4 0.4 - 2.4 < 400	n/a n/a g/dl g/dl g/dl ug/ml
DEXX Catalyst One DEXX Catalyst One DEXX Catalyst One DEXX Catalyst One ELISA Capillary Electrophoresis	3.0 - 4.5 1.4 - 3.4 0.4 - 2.4 < 400	g/dl g/dl g/dl g/dl µg/ml
DEXX Catalyst One DEXX Catalyst One DEXX Catalyst One DEXX Catalyst One ELISA Capillary Electrophoresis	3.0 - 4.5 1.4 - 3.4 0.4 - 2.4 < 400	g/dl g/dl g/dl g/dl µg/ml
DEXX Catalyst One DEXX Catalyst One DEXX Catalyst One ELISA Capillary Electrophoresis	3.0 - 4.5 1.4 - 3.4 0.4 - 2.4 < 400	g/dl g/dl g/dl g/dl µg/ml
DEXX Catalyst One DEXX Catalyst One ELISA Capillary Electrophoresis	1.4 - 3.4 0.4 - 2.4 < 400	g/dl g/dl µg/ml
DEXX Catalyst One DEXX Catalyst One ELISA Capillary Electrophoresis	1.4 - 3.4 0.4 - 2.4 < 400	g/dl g/dl µg/ml
DEXX Catalyst One DEXX Catalyst One ELISA Capillary Electrophoresis	1.4 - 3.4 0.4 - 2.4 < 400	g/dl g/dl µg/ml
DEXX Catalyst One ELISA Capillary Electrophoresis	0.4 - 2.4 < 400	g/dl µg/ml
ELISA Capillary Electrophoresis	< 400	μg/ml
Capillary Electrophoresis		
	Normal	n/a
DEXX Snap Test	T	
DEXX Snap Test	1	
DEXX Snap Test	<u> </u>	
	Test and report	n/a
•	i	n/a
DEXX Snap Test	Test and report	n/a
	T	
		n/a
•		n/a
IPCR	Not detected	n/a
	T	_
Corum Noutralization		+
est (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
	T	
DEVV Catalan C	Barrel	1
		U/L
•		U/L
		U/L
•		U/L U/L
	DEXX Snap Test DEX Snap Tes	DEXX Snap Test DEXX Snap Test DEXX Snap Test DEXX Snap Test Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report Test and report 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 (CI)	IDEXX Catalyst One	Record	mmol/L
chloride (ci)	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	Bank ad	Considerations	I I nite
Cell Line	Method Multiple Passage -	Specifications	Units
	' '		
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		



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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.