

# Fetal Bovine Serum

Triple 0.1  $\mu m$  sterile filtered

Cat. No.: E5050 Lot No.: 34070121 Origin: BRAZIL

Date of Manufacture: 07/2021 Storage: -20°C

#### **Physical and Chemical Analysis**

Test	Method	Specifications	Results	Units	
Identity	Internally Validated	Bovine	Bovine	n/a	
Appearance	Visual	Clear yellow-amber	Clear yellow-amber	ber n/a	
Specific Gravity	Mass Balance	> 1.01	1.01	g/ml	
pН	Electronic pH Meter	6.8 - 8.2	7.26 (18.5°C)	n/a	
Osmolality	Osmometer	260 - 340	304	mOsm/kg	
Endotoxin	LAL Kinetic	< 10	5.2	EU/ml	
Free Hemoglobin	Colorimetric	< 25	15.25	mg/dl	

## **Protein Profile**

Test	Method Specifications Results		Results	Units
Total Protein	IDEXX Catalyst One 3.0 - 4.5 4.2		4.2	g/dl
Albumin	IDEXX Catalyst One 1.4 - 3.4 2.1		2.1	g/dl
Globulin	IDEXX Catalyst One 0.4 - 2.4 2.2		2.2	g/dl
IgG	ELISA < 500 227.8		227.8	μg/ml
Electrophoretic Pattern	Capillary Electrophoresis	ectrophoresis Normal Normal		n/a

## **Sterility**

Test	Method	Specifications	Results	Units
Sterility	Eur. Ph. 2.6.1	Pass	Pass	n/a
Mycoplasma	qPCR	Not detected	Not detected	n/a

#### **Antibiotics**

Test	Method	Specifications	Results	Units
Tetracycline	IDEXX Snap Test	Test and report	Not detected	n/a
Oxytetracycline	IDEXX Snap Test	Test and report	Not detected	n/a
Chlortetracycline	IDEXX Snap Test	Test and report	Not detected	n/a

## Virus Testing

Test	Method	Specifications	Results	Units
BVDV/BHV-1/PI-3 (CPE)	Cell Culture	Not detected	Not detected	n/a
Rabies Virus	qPCR	Not detected	Not detected	n/a
Bluetongue Virus (BTV)	qPCR	Not detected	Not detected	n/a
BRSV	qPCR	Not detected	Not detected	n/a
Reo Virus	qPCR	Not detected	Not detected	n/a
BAV	qPCR	Not detected	Not detected	n/a
BoPV-1, 2	qPCR	Not detected	Not detected	n/a

THIS PRODUCT IS NOT INTENDED FOR HUMAN OR ANIMAL CONSUMPTION OR THERAPEUTIC USE.



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#### **Antibody Testing**

Test	Method	Specifications	Results	Units
BVDV-1, 2, 3	Detection of Antibodies (ELISA)	Test and report	Not detected	n/a
BHV-1	Detection of Antibodies (ELISA)	Test and report	Not detected	n/a
PI-3	Detection of Antibodies (ELISA)	Test and report	Not detected	n/a

#### **Biochemistry**

Test	Method	Specifications	Results	Units
Aspartate Aminotransferase (AST)	IDEXX Catalyst One	Test and report	44	U/L
Alanine Aminotransferase (ALT)	IDEXX Catalyst One	Test and report	<10	U/L
Lactate Dehydrogenase (LDH)	IDEXX Catalyst One	Test and report	1943	U/L
Alkaline Phosphatase (ALKP)	IDEXX Catalyst One	Test and report	306	U/L
Gamma-Glutamyl Trans. (GGT)	IDEXX Catalyst One	Test and report	2	U/L
Cholesterol (CHOL)	IDEXX Catalyst One	Test and report	0.23	mmol/L
Glucose (GLU)	IDEXX Catalyst One	Test and report	2.48	mmol/L
Urea (BUN)	IDEXX Catalyst One	Test and report	5.4	mmol/L
Creatinine (CREA)	IDEXX Catalyst One	Test and report	6	μmol/L
Uric Acid (URIC)	IDEXX Catalyst One	Test and report	74	μmol/L
Calcium (Ca)	IDEXX Catalyst One	Test and report	3.42	mmol/L
Phosphorus (PHOS)	IDEXX Catalyst One	Test and report	2.76	mmol/L
Total Bilirubin (TBIL)	IDEXX Catalyst One	Test and report	4	μmol/L
Magnesium (Mg)	IDEXX Catalyst One	Test and report	1.43	mmol/L
Sodium (Na)	IDEXX Catalyst One	Test and report	140	mmol/L
Potassium (K)	IDEXX Catalyst One	Test and report	>10	mmol/L
Chloride (CL)	IDEXX Catalyst One	Test and report	104	mmol/L
Triglyceride (Trig)	IDEXX Catalyst One	Test and report	0.79	mmol/L
Iron (Fe)	Colorimetric	Test and report	170	μg/dl



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#### **Cell-Culture Test**

Cell Line	Method	Specifications	Results
L-929	Morphology	Tested vs. Control Serum <sup>1</sup>	3/3
HELA	Morphology	Tested vs. Control Serum <sup>1</sup>	3-/3-
MRC-5	Morphology	Tested vs. Control Serum <sup>1</sup>	3/3
L-929	Density	Tested vs. Control Serum <sup>2</sup>	3/3
HELA	Density	Tested vs. Control Serum <sup>2</sup>	3/3
MRC-5	Density	Tested vs. Control Serum <sup>2</sup>	3/3
L-929	Cell Count	Cell count [log <sub>10</sub> /ml]/dead cells [%]	6.34/0 vs. 6.40/0
HELA	Cell Count	Cell count [log <sub>10</sub> /ml]/dead cells [%]	6.28/0 vs. 6.22/0.8

#### Scoring System (vs. Control Serum):

- O cells dead; 1 many degenerated cells, plenty of dead cells; 2 cells partially degenerated; many dead cells; 3 few degenerated cells, some dead cells; 4 all cells ok.
- o single cells/small colonies; 1 < 50% confluent; 2 50 90% confluent; 3 confluent; 4 more than confluent

#### Interpretation:

The cultures with test serum 34070121 showed comparable cell growth in all cases compared to the internal control serum. Using the test serum in general, all cells displayed satisfying viability and cell growth.