

Fetal Bovine Serum

Triple 0.1 µm sterile filtered

Cat. No.: E5050
Lot No.: 34050321
Origin: BRAZIL
Date of Manufacture: 05/2021
Storage: -20°C

Physical and Chemical Analysis

Test	Specifications	Results	Units
Identity	Bovine	Bovine	n/a
Appearance	Clear yellow-amber	Clear yellow-amber	n/a
Specific Gravity	> 1.01	1.01	g/ml
pH	6.8 - 8.2	7.22 (18.1°C)	n/a
Osmolality	260 - 340	311	mOsm/kg
Endotoxin	< 10	7	EU/ml
Free Hemoglobin	< 25	14.62	mg/dl

Protein Profile

Test	Specifications	Results	Units
Total Protein	3.0 - 4.5	4.0	g/dl
Albumin	1.4 - 3.4	1.92	g/dl
Globulin	0.4 - 2.4	2.08	g/dl
IgG	< 500	175.1	µg/ml

Sterility

Test	Specifications	Results	Units
Aerobic Bacteria	Not detected	Not detected	n/a
Anaerobic Bacteria	Not detected	Not detected	n/a
Fungi (Yeast & Mold)	Not detected	Not detected	n/a
Mycoplasma	Not detected	Not detected	n/a

Antibiotics

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

Virus Testing

Test	Specifications	Results	Units
BVDV (CPE)	Not detected	Not detected	n/a
Parainfluenza Virus: PI-3 (CPE)	Not detected	Not detected	n/a
Bovine Herpesvirus: BHV-1,4 (CPE)	Not detected	Not detected	n/a
Rabies Virus	Not detected	Not detected	n/a
Bluetongue	Not detected	Not detected	n/a
BRSV	Not detected	Not detected	n/a
Reo Virus	Not detected	Not detected	n/a
Bovine Adenovirus: BAV-3,5	Not detected	Not detected	n/a
Bovine Parvovirus: BPV-1, 2	Not detected	Not detected	n/a

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Antibody Testing

Test	Specifications	Results	Units
BVDV-1	Test and report	Not detected	n/a
BVDV-2	Test and report	Not detected	n/a
BHV-1	Test and report	Not detected	n/a
PI-3	Test and report	Not detected	n/a

Biochemistry

Test	Specifications	Results	Units
Aspartate Aminotransferase (AST)	Test and report	44	U/L
Alanine Aminotransferase (ALT)	Test and report	17	U/L
Lactate Dehydrogenase (LDH)	Test and report	2141	U/L
Alkaline Phosphatase (ALKP)	Test and report	305	U/L
Gamma-Glutamyl Transferase (GGT)	Test and report	4	U/L
Cholesterol (CHOL)	Test and report	0.31	mmol/L
Glucose (GLU)	Test and report	2.49	mmol/L
Urea (BUN)	Test and report	5.5	mmol/L
Creatinine (CREA)	Test and report	177	µmol/L
Uric Acid (URIC)	Test and report	75	µmol/L
Calcium (Ca)	Test and report	2.95	mmol/L
Phosphorus (PHOS)	Test and report	2.86	mmol/L
Total Bilirubin (TBIL)	Test and report	7	µmol/L
Magnesium (Mg)	Test and report	1.23	mmol/L
Sodium (Na)	Test and report	133	mmol/L
Potassium (K)	Test and report	>10	mmol/L
Chloride (CL)	Test and report	107	mmol/L
Triglyceride (Trig)	Test and report	0.98	mmol/L
Iron (Fe)	Test and report	207	µg/dl

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Cell-Culture Test

Cell Line	Method	Specifications	Results
L-929	Morphology	Tested vs. Control Serum ¹	3-/3-
HELA	Morphology	Tested vs. Control Serum ¹	3-/3-
MRC-5	Morphology	Tested vs. Control Serum ¹	3-/3-
L-929	Density	Tested vs. Control Serum ²	3/3
HELA	Density	Tested vs. Control Serum ²	3-/3
MRC-5	Density	Tested vs. Control Serum ²	2/2
L-929	Cell Count	Cell count [log ₁₀ /ml]/dead cells [%]	6.42/0 vs. 6.28/0
HELA	Cell Count	Cell count [log ₁₀ /ml]/dead cells [%]	5.90/0 vs. 5.83/1.9

Scoring System (vs. Control Serum):

- ¹ 0 cells dead; 1 many degenerated cells, plenty of dead cells; 2 cells partially degenerated; many dead cells; 3 few cells degenerated and few dead cells; 4 w/o pathological findings
- ² 0 single cells/cell aggregates; 1 <50% confluency; 2 50 – 90% confluency; 3 confluency; 4 overly confluent

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