

Fetal Bovine Serum
Value Heat Inactivated FBS

Lot Number: M2917586RP
Item Number: A52568
Manufacturing Date: MAR 2024
Expiration Date: 2029-03
Storage Temp: <= -10C
Country of Origin: Mexico

For research use or further manufacturing use only. Serum and blood proteins are not for direct administration into humans or animals.

Triple 0.1um filtered

TEST	TEST ID	SPECIFICATION	RESULT	UNITS
Appearance <i>- Golden yellow to reddish brown liquid.</i>	SOLAPP0014	Pass	Pass	
Batch Volume	VOLWGT0009	Check and Record	1422.5	L
Endotoxin	ENDO0028	<=20.00	3.82	EU/mL
Haemoglobin/Hemoglobin <i>- Testing performed post heat inactivation.</i>	HAEMO0009	<=25.0	5.0	mg/dL
Hormone Profile: Estradiol	HORMON0011	Check and Record	14.20	pg/mL
Identification: Electrophoretic Profile <i>- Normal = Electrophoretic profile/pattern is consistent with Fetal Bovine Serum.</i>	ELECTR0016	Normal	Normal	
Mycoplasma	MYCO0062	Not Detected	Not Detected	
Mycoplasma: Supplemental Testing (H-Stain)	MYCO0063	Not Detected	Not Detected	
Original Catalogue\Catalog Number	LOT00015	Check and Record	A52567	
Original Lot Number	LOT00016	Check and Record	M2917582RP	
Osmolality	OSMO0020	280 - 340	310	mOsm/kg H2O
Performance: Relative Cloning Efficiency(RCE)	CLON0001	Check and Record	83	%
Performance: Relative Growth Promotion(RGP)	WI380002	Check and Record	81	%
Performance: Relative Plating Efficiency(RPE)	PLATE0004	Check and Record	125	%
pH	PH0024	7.0 - 8.0	7.2	
Protein: Albumin	ELECTR0017	Check and Record	22.2	mg/mL
Protein: Alpha Globulin	ELECTR0018	Check and Record	9.1	mg/mL
Protein: Beta Globulin	ELECTR0019	Check and Record	3.3	mg/mL
Protein: Gamma Globulin <i>- </=500mg/L is consistent with Fetal Bovine Serum.</i>	RID0002	<=500	368	mg/L
Protein: Total Protein <i>- mg/mL= g/L; mg/mL/10= g/dL.</i>	PROTEI0005	30.0 - 55.0	36.0	mg/mL
Sterility: Bacterial and Fungal Testing	STERI0010	No Growth Detected	No Growth Detected	
Virus (9CFR): Bluetongue Virus <i>- If Mexican or Australian raw material origin is used, testing not required. If United States, New Zealand, or Canadian raw material origin is used, testing required.</i>	VIRUS0662	Not Detected	Not Measured	
Virus (9CFR): Bovine Adenovirus	VIRUS0017	Not Detected	Not Detected	
Virus (9CFR): Bovine Parvovirus	VIRUS0018	Not Detected	Not Detected	
Virus (9CFR): Bovine Viral Diarrhoea Virus	VIRUS0020	Check and Record	Not Detected	

<i>- Diarrhoea = Diarrhea.Non Cytopathogenic.</i>			
Virus (9CFR): BRSV	VIRUS0019	Not Detected	Not Detected
<i>- BRSV: Bovine Respiratory Syncytial Virus.</i>			
Virus (9CFR): Cytopathogenic Agents	VIRUS0022	Not Detected	Not Detected
<i>- Including Bovine Herpesvirus 1 (BHV-1/IBR).</i>			
Virus (9CFR): Haemadsorbing Agents	VIRUS0023	Not Detected	Not Detected
<i>- Including Bovine Parainfluenza Virus 3 (PI-3).</i>			
Virus (9CFR): Rabies Virus	VIRUS0024	Not Detected	Not Detected
Virus (9CFR): Reovirus	VIRUS0025	Not Detected	Not Detected
Virus (USDA): Akabane Virus	VIRUS0027	Negative	Not Measured
<i>- If Mexican, United States, New Zealand or Canadian raw material origin is used, testing not required. If Australian raw material origin is used, testing required.</i>			
Virus (USDA): Bluetongue Virus	VIRUS0026	Negative	Negative
<i>- If Mexican or Australian raw material origin is used, testing required. If United States, Candian or New Zealand sourced raw material is used, testing not required.</i>			

QUALITY: Life Technologies Corporation is ISO13485 certified.
 REGULATORY: Life Technologies Corporation export blood products to multiple overseas markets and is approved by the United States Department of Agriculture (USDA) for export to the EU of blood products for technical purposes outside the food chain.
 ABATTOIR SOURCED ANIMALS: All fetal bovine blood is collected from fetuses derived from healthy dams that have passed pre and post-mortem verified veterinary inspection.
 TRACEABILITY: All fetal bovine sera is traceable by date and location of collection. Thermo Fisher Scientific serum processes are traceability certified by the International Serum Industry Association (ISIA).

Australia, Canada, Mexico, New Zealand and United States are recognised as being free of Foot and Mouth Disease, Rinderpest and negligible risk for Bovine Spongiform Encephalopathy.

GIBCO brand cell culture liquid products are prepared by an aseptic process for which each step has been validated to ensure that all products meet the industry standard sterility assurance level of 10⁻³; i.e. product that demonstrates a contamination level of no more than 1 of 1000 units during the manufacturing process. The highest level of sterility assurance (equal to or greater than 10⁻⁶) cannot be achieved without terminal sterilisation.

Since our sera are not pre-aged before filtration, turbidity or flocculent debris may develop upon thawing or storage. This condition does not adversely affect performance characteristic of the serum.

Manufacturing address (Filtration): 3175 Staley Road, Grand Island, New York, 14072, USA.
 Country of further treatment: (Heat Inactivation) = United States.

Testing performed prior to heat inactivation unless otherwise stated. Batch Volume = Original bottled volume at the time of manufacturing and delivered to storage of the parent (original) lot.

NOTICE: Effective 18OCT2022 the specification has been updated based on ECR1094977. If you have questions regarding this change, please contact Thermo Fisher Scientific Technical Support at 1-800-955-6288 in North America or Techsupport@thermofisher.com globally.



Quality Systems Department Date: 16-May-2024

References

- SOLAPP0014: Visual and physical inspection.
- VOLWGT0009: Batch manufacturing record.

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- ENDO0028: Current edition of USP <85> and EP 2.6.14.
 - HAEMO0009: Determined Spectrophotometrically. Current addition of USP <90>.
 - HORMON0011: Hormone profile testing performed by approved contract laboratory.
 - ELECTR0016: Protein Electrophoresis.
 - LOTCAT0015: Original catalogue\catalog number of product pre gamma irradiation or heat inactivation.
 - LOTCAT0016: Original lot number of product pre gamma irradiation or heat inactivation.
 - OSMO0020: Freezing Point Depression. Current edition of USP <785> and EP 2.2.35.
 - CLON0001: Cell Line Used: Sp2/O-Ag14, ATCC No. CRL-1581 or P3 x 63 - Ag8.653, ATCC No. CRL-1580. The cloning efficiency assay analyzes the ability of each FBS lot to support cloning and growth of murine myeloma cells and derived hybridomas.
 - WI380002: Cell Line Used Human Diploid Lung Fibroblast (MRC-5), ATCC No. CCL-171 or Human Diploid Lung Fibroblast (WI-38), ATCC No. CCL-75. The growth promotion assay measures the ability of each FBS lot to support proliferation of fastidious human diploid fibroblasts through multiple subcultures.
 - PLATE0004: Cell Line Used: Human Carcinoma (A549), ATCC No. CCL-185. Analysis of cellular attachment and proliferation of a human transformed cell line.
 - PH0024: Combined Electrode. Current edition of USP <791>.
 - ELECTR0017: Protein Electrophoresis.
 - ELECTR0018: Protein Electrophoresis.
 - ELECTR0019: Protein Electrophoresis.
 - RID0002: Radial Immunodiffusion. Current edition of USP <90> modified and EP 2.7.1.
 - PROTEI0005: Biuret Method. Current edition of USP <1057> and EP 2.5.33 modified.
 - STERI0010: Current edition of USP <71> and EP 2.6.1.
 - VIRUS0662: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47]. Detected by fluorescent antibody.
 - VIRUS0017: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47]. Detected by fluorescent antibody.
 - VIRUS0018: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47]. Detected by fluorescent antibody.
 - VIRUS0020: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47]. Detected by fluorescent antibody.
 - VIRUS0019: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47]. Detected by fluorescent antibody.
 - VIRUS0022: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47].
 - VIRUS0023: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47].
 - VIRUS0024: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47]. Detected by fluorescent antibody.
 - VIRUS0025: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47]. Detected by fluorescent antibody.
 - VIRUS0027: Virus Testing is performed by the sheep inoculation test by the U.S. Department of Agriculture, Animal and Plant Inspection Service, National Veterinary Services Laboratories, Ames, Iowa.
 - VIRUS0026: Virus Testing is performed by the sheep inoculation test by the U.S. Department of Agriculture, Animal and Plant Inspection Service, National Veterinary Services Laboratories, Ames, Iowa.