

## Fetal Bovine Serum- Triple 0.1 µm Filtered, US Origin

Product Number: FBS-BBT-5XM  
 FBS-BBT-01L  
 FBS-BBT-SMP  
 FBS-BBT-CSP

Lot Number: 20160928FS  
 Date of Manufacture: 09/2016  
 Expiration Date: 09/2021  
 Storage Temperature: ≤ -10 °C



BASIS FOR RELEASE

NOT FOR HUMAN OR ANIMAL CONSUMPTION

CHEMICAL ANALYSIS			
Test	Method	Specification	Result
Albumin	Chemistry Analyzer	≤ 4.5 g/dL	2.2 g/dL
ALT	Chemistry Analyzer	As Reported	5 U/L
AST	Chemistry Analyzer	As Reported	33 U/L
Bilirubin	Chemistry Analyzer	As Reported	0.3 mg/dL
Calcium	Chemistry Analyzer	As Reported	13 mg/dL
Chloride	Chemistry Analyzer	As Reported	95 mEq/L
Cholesterol	Chemistry Analyzer	As Reported	28 mg/dL
Creatinine	Chemistry Analyzer	As Reported	2.6 mg/dL
Globulin	Chemistry Analyzer	As Reported	1.2 g/dL
Glucose	Chemistry Analyzer	As Reported	111 mg/dL
Hemoglobin	USP < 90 >	< 30 mg/dL	12.2 mg/dL
IgG	ELISA	As Reported	116 µg/mL
Osmolality	Osmometer	280-360 mOsm/kg	311 mOsm/kg
pH	pH Meter	6.5 - 8.5	7.1
Phosphorus	Chemistry Analyzer	As Reported	9.3 mg/dL
Potassium	Chemistry Analyzer	As Reported	> 10 mEq/L
Sodium	Chemistry Analyzer	As Reported	132 mEq/L
Total Protein	Chemistry Analyzer	3.0 - 4.5 g/dL	3.4 g/dL
Urea	Chemistry Analyzer	As Reported	14 mg/dL

MICROBIOLOGICAL ANALYSIS			
Test	Method	Specification	Result
Endotoxin	USP < 85 >	≤ 10.0 EU/mL	< 0.1 EU/mL
Mycoplasma	Direct Culture	Not Detected	Not Detected
Sterility	USP/EP	No Growth	No Growth

VIRAL ANALYSIS			
Test	Method	Specification	Result
Blue Tongue	9CFR 113.53	Not Detected	Not Detected
Bovine Adeno 1	9CFR 113.53	Not Detected	Not Detected
Bovine Adeno 5	9CFR 113.53	Not Detected	Not Detected
BPV	9CFR 113.53	Not Detected	Not Detected
BRSV	9CFR 113.53	Not Detected	Not Detected
BVD Cytopathic	9CFR 113.53	Not Detected	Not Detected
BVD Non-Cytopathic	9CFR 113.53	Tested	Not Detected
Cytopathic (IBR)	9CFR 113.53	Not Detected	Not Detected
Hemadsorbing (PI3)	9CFR 113.53	Not Detected	Not Detected
Rabies	9CFR 113.53	Not Detected	Not Detected
REO Virus	9CFR 113.53	Not Detected	Not Detected

IDENTITY ANALYSIS			
Test	Method	Specification	Result
Appearance	Visual	Clear Yellow-Amber	Pass
Serum Identity	Electrophoresis	Characteristic	Characteristic



Rocky Mountain Biologicals, Inc

# Certificate of Analysis

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ADDITIONAL LOT INFORMATION

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### Additional Testing

GROWTH PROMOTION/CYTOTOXICITY			CUSTOMER SPECIFIC		
Test	Specification	Result	Test	Specification	Result
CHO	As Reported	Not Requested	Not Requested		
CHO Cell Cytotoxicity	As Reported	Not Requested	Not Requested		
Vero	As Reported	Not Requested	Not Requested		
Vero Cell Cytotoxicity	As Reported	Not Requested	Not Requested		

#### STATEMENT OF ORIGIN

Raw serum used in the manufacture of this product was obtained from approved suppliers collecting from abattoirs in the United States from traceable animals originating from the United States. Full health, traceability, and required regulatory documentation are maintained under RMBIO's quality systems. The serum was processed, filtered, and finished in the United States.

#### BSE/TSE STATEMENT

The United States of America is recognized as having negligible BSE/TSE risk by the World Organization for Animal Health (OIE).

#### ISIA CERTIFICATE TRACEABILITY

All raw serum is certified by the International Serum Industry Association (ISIA) to be sourced in accordance with their strict guidelines. ([www.serumindustry.org](http://www.serumindustry.org)).

#### EUROPEAN UNION ELIGIBILITY

Product meets European Union requirements for production of technical blood products.

#### Approval

Quality Assurance- Print Name:	Quality Assurance- Sign Name:	Date:
<b>Terri Sorensen</b>		11-Jan-17

Rocky Mountain Biologicals, Inc.

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