



Rocky Mountain Biologicals, Inc

Certificate of Analysis

Calf Serum – 0.2µm Filtered, US origin

Product number: CSF-BBT-XXX Lot Number: 20150818CS
 Date of Manufacture: 08/2015 Expiration Date: 08/2020
 Storage temperature: -5 to -20°C

Not for human or animal consumption

Basis for Release

Chemical Analysis			Microbiological Analysis		
Test	Specification	Result	Test	Specification	Result
Osmolality	260-340 mOsm/Kg	288 mOsm/Kg	Sterility 9CFR 113.26	No growth	No growth
pH	As Reported	7.66	Mycoplasma 9CFR 113.28	Not Detected	Not Detected
Hemoglobin	< 25 mg/dL	12.3 mg/dL	Endotoxin	As Reported	< 10 EU/mL
Total Protein	As Reported	7.4 g/dL	Viral Analysis 9CFR 113.46, 47, 53		
Albumin	As Reported	3.6 g/dL	Test	Specification	Result
Globulin	As Reported	3.8 g/dL	BVD Cytopathic	Not Detected	Not Detected
GGT	As Reported	31 U/L	BVD Non- Cytopathic	Tested	Not Detected
Triglyceride	As Reported	20 mg/dL	PI3 Hemadsorbing	Not Detected	Not Detected
CK	As Reported	487 U/L	IBR Cytopathic	Not Detected	Not Detected
Iron	As Reported	62 µg/dL	Bovine Adeno 3	Not Detected	Not Detected
Magnesium	As Reported	2 mg/dL	Bovine Adeno 5	Not Detected	Not Detected
Bilirubin	As Reported	0.3 mg/dL	BRSV	Not Detected	Not Detected
ALT	As Reported	17 U/L	BPV	Not Detected	Not Detected
AST	As Reported	97 U/L	REO Virus	Not Detected	Not Detected
Cholesterol	As Reported	121 mg/dL	Rabies	Not Detected	Not Detected
Glucose	As Reported	59 mg/dL	Blue Tongue	Not Detected	Not Detected
Urea	As Reported	7 mg/dL	Identity Analysis		
Creatinine	As Reported	0.7 mg/dL	Test	Specification	Result
Sodium	As Reported	141 mEq/L	Serum Identity	Characteristic	Characteristic
Chloride	As Reported	100 mEq/L	Appearance	Clear yellow-amber	Clear yellow-amber
Potassium	As Reported	5.7 mEq/L			
Calcium	As Reported	10.2 mg/dL			
Phosphorus	As Reported	9 mg/dL			

STATEMENT OF ORIGIN

This serum was derived from blood collected in approved abattoirs. The serum was processed and filtered in the USA. The country of origin of the crude blood, (bovine origin), is the United States.

Approval

Quality Assurance – Print Name: <i>Terri Sorensen</i>	Quality Assurance – Sign Name: <i>TSorensen</i>	Date: <i>10/14/15</i>
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