

## **Certificate of Analysis**

Created January 22, 2020

**Product:** 

No Worries™ Fetal Bovine Serum

Triple 0.1µm sterile-filtered

Catalog #: 100-700 Lot #: A20H82K Origin: New Zealand

Manufacture Date: Apr 2019 Expiration Date: Apr 2024

TEST	<b>M</b> ETHODOLOGY	SPECIFICATION	RESULTS
Biological Testing			
Endotoxin	USP<85>	<10.0 EU/mL	<0.1 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	9.03 mg/dL
Microbiological Testing			
Sterility	USP<71>		
Bacteria		Not Detected	Not Detected
Fungi		Not Detected	Not Detected
Mycoplasma	Barile, MF and Kern, J (1971)	Not Detected	Not Detected
Viral Testing	9 CFR 113.53c [113.46, 113.47]		
Cytopathic Agents		Not Detected	Not Detected
Hemadsorbing Agents		Not Detected	Not Detected
Bovine Viral Diarrhea		Not Detected	Not Detected
Physical Testing			
Electrophoretic Pattern	Cellulose Acetate	Normal	Normal
Osmolality	USP<785>	260-350 m0sm/kg	303 mOsm/kg
pH @ RT	USP<791>	6.5 - 8.5	7.17



## **Biochemical Testing**

**Product:** 

## No Worries™ Fetal Bovine Serum

Triple 0.1µm sterile-filtered

Catalog #: 100-700 Lot #: A20H82K **Origin: New Zealand** 

**Manufacture Date: Apr 2019 Expiration Date: Apr 2024** 

Test	<b>M</b> ETHODOLOGY	SPECIFICATION	RES	ULTS
Albumin		Test and Report	2.1	g/dL
Alkaline Phosphatase		Test and Report	155	U/L
ALT (SGPT)		Test and Report	4	U/L
AST (SGOT)		Test and Report	36	U/L
GGT		<10 U/L	5	
Bilirubin, Total		Test and Report	0.2	mg/dL
BUN		Test and Report	17	mg/dL
Calcium		Test and Report	3.05	mM
Chloride		Test and Report	96	mM
Cholesterol		Test and Report	31	mg/dL
Creatinine		Test and Report	1.8	mg/dL
Glucose		Test and Report	3.3	mM
IgG	ELISA	<0.300 mg/mL*	0.025	mg/mL
Iron, Serum		Test and Report	223	ug/dL
Phosphorus		Test and Report	3.2	mM
Potassium		Test and Report	>10.0	mM
Protein, Total	Biuret	2.5-6.0 g/dL	3.2	g/dL
Sodium		Test and Report	133	mM
Uric Acid		Test and Report	1.4	mg/dL

For Cell Culture, further Manufacturing and Research use only. Not for direct Therapeutic use.

u 22 Jan 2020

Results shown were obtained by carefully performed methods believed to be reliable. However, since some results may vary by methodology, it is suggested that tests for which results are particularly critical be repeated by the end user.

Our fetal bovine serum meets all USDA requirements and has passed ante- and post-mortem inspection by a licensed veterinarian. It is collected in countries recognized as being free of foot-and-mouth disease and rinderpest. The origin of all fetal bovine serum is traceable by lot number, date and country of collection.

Precipitates may develop in this product upon freezing and/or thawing; this occurrence does not impact culture performance. \*Some geographic regions may test higher than 0.300 mg/mL. If this be the case refer to GGT results less than 10 U/L to

ensure FBS purity.

Created by/ date

22TANIOLO

Verified by/ date