

Catalog Number: 89510-198, 97068-101 **Gamma Irradiated:** 97068-102
Heat Inactivated: 89510-200, 97068-107 **Heat Inactivated, Gamma Irradiated:** 97068-104

When additional processing is requested, original catalog # will appear on product along with heat inactivation or gamma irradiation sticker. VWR product # will be amended to reflect processing.

Material description:

Grade:
Lot Number:
Total Volume:
Date of Manufacture:
Expiration Date:
Date Released:
Origin:
Filtration:
Storage:

Fetal Bovine Serum
Ultimate Grade
172B16
1065.3 Liters
22 June 2016
July 2021
22 July 2016
Collected and Processed in USA
Triple 0.1µm Sterile Filtered
-10° to -20°C

Certified Analysis

Test/Method	Unit of Measure	Specification	Result
Bovine Viral Diarrhea Virus (qPCR Technology)	N/A	Not Detected	Not Detected
Endotoxin (USP 85)	EU/mL	≤10	<0.050
Hemoglobin (Fleming & Woolf)	mg/dL	≤25	13.16
Total Protein	g/dL	3.0 to 4.5	3.2
Sterility (Current USP and EP 2.6.1 for Bacteria & Fungi)	N/A	No Growth	No Growth
Mycoplasma (Barile & Kern; Large Volume, Direct Culture)	N/A	Not Detected	Not Detected
pH (USP 791)	N/A	Test & Report	7.22
Osmolality (USP 785)	mOsm/KgH2O	Test & Report	301
Virus Testing (9 CFR 113.53c)			
Bluetongue	N/A	Not Detected	Not Detected
Bovine Adenovirus	N/A	Not Detected	Not Detected
Bovine Parvovirus	N/A	Not Detected	Not Detected
Bovine Respiratory Syncytial Virus	N/A	Not Detected	Not Detected
Bovine Viral Diarrhea Virus	N/A	Not Detected	Not Detected
Rabies	N/A	Not Detected	Not Detected
Reovirus	N/A	Not Detected	Not Detected
Cytopathogenic Agents (IBR)	N/A	Not Detected	Not Detected
Hemadsorbing Agents (PI3)	N/A	Not Detected	Not Detected

Biochemical Assay

Test/Method	Unit of Measure	Result	Test/Method	Unit of Measure	Result
Albumin	gm/dL	2.1	Triglycerides	mg/dL	59
Alkaline Phosphatase	U/L	200	Urea Nitrogen (BUN)	mg/dL	15
ALT (SGPT)	U/L	7	Uric Acid	mg/dL	1.9
AST (SGOT)	U/L	52	Electrophoretic Profile		
Bilirubin – Total	mg/dL	0.3	Alpha 1 & 2	g/dL	1.1
Calcium	mg/dL	12.6	Beta 1 & 2	g/dL	0.3
Chloride	mEq/L	95	Gamma 1	N/A	Not Detected
Cholesterol - Total	mg/dL	29	Hormone Profile		
LDL Cholesterol	mg/dL	20	Cortisol	µg/dL	<0.2
HDL Cholesterol	mg/dL	8	Estradiol	pg/mL	22.7
Creatinine	mg/dL	2.3	Insulin	µIU/mL	6.31
Glucose	mg/dL	72	Progesterone	ng/mL	<0.05
IgG (ELISA)	µg/mL	62	T3 Baseline	ng /mL	124
Phosphorus	mg/dL	9.4	T4 Baseline	ug/dL	12.9
Potassium	mEq/L	>10.0	Testosterone	ng/mL	<0.01
Sodium	mEq/L	132			

Statements

Statement of Origin: This product was manufactured from fetal bovine blood collected exclusively from approved harvest facilities. All fetal bovine serum used in this product is derived from fetuses collected from cows that are United States origin and have passed ante- and post-mortem inspection. All harvest facilities are USDA inspected and approved and located within the continental United States of America. All collection and processing activities are performed under the strict guidance of standard operating procedures. This product meets European Union requirements for production of technical blood products.

Statement of Intended Use: This product is intended for further manufacturing or research use. This product is not intended for human or therapeutic use. Not for human or animal consumption.

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



ISIA Compliant Documentation: This document complies with all documentation standards issued by the ISIA regarding the definition, quality control, country of origin and certified analysis of fetal bovine serum (www.serumindustry.org).

BOVINE SPONGIFORM ENCEPHALOPATHY (BSE) STATEMENT

Seradigm certifies that this product does not contain, and is not derived from, specified risk material as defined in Commission Decision 97/534/EC. The Commission Decision defines specified risk material of bovine origin as: the skull, including the brain and eyes, tonsils and spinal cord of bovine animals aged over 12 months.

Bovine spongiform encephalopathy cannot be removed using collection or filtration methods. No assays are available to detect prions in blood products, there preventing any inactivation processes from being performed that would guarantee bovine blood to be prion-free. The European Pharmacopeia (Ph.Eur. 2002, 5.2.8 Minimising the risk of transmitting animal spongiform encephalopathy agents via medicinal products) and the World Health Organization both assign fetal bovine serum a Category iV "no detectable infectivity" classification, a designation of least amount of risk.

OIE Resolution No. 20, issued May 2013, upgraded the United States' risk status classification for BSE to "negligible risk". Material from the US is now Category A (formerly GBR I) which is the lowest risk category for BSE.

Signed on behalf of VWR:



John Manley
Quality Manager