



Thermo Scientific HyClone Super Low IgG Fetal Bovine Serum

Processed to substantially reduce IgG (via Protein G Chromatography) level, Thermo Scientific HyClone Super Low IgG Fetal Bovine Serum (FBS) is suitable for use in more exacting applications.

FBS contains natural levels of immunoglobulin (IgG) that may be too high for certain cell culture and protein purification applications. Serum from individual animals may be screened for low content and pooled to produce large batches of FBS with lower levels of IgG. However, this may be quite a challenge due to the scarcity of such low IgG animals and the logistics involved with the screening and collection process. Even naturally occurring low levels of IgG may still be too high for certain applications. Comparative levels of IgG in bovine serum products are shown in the table below.

Product	Average IgG Level
Calf serum	14.09 mg/mL
FBS	0.20 mg/mL
Naturally low IgG FBS	0.02 mg/mL
Super Low IgG FBS	<0.005 mg/mL

HyClone® Super Low IgG FBS performance is equivalent to non-processed FBS and is suitable for applications requiring lower levels of specific antibody, such as propagation of bovine viruses and monoclonal antibody production.



Product testing is as follows:

Test	Specifications
Certificate of Analysis Testing (Release Criteria)	
IgG	≤ 5µg/mL
Endotoxin (Limulus Amebocyte Lysate - Gel Clot)	≤ 10 EU/mL
Hemoglobin (Spectrophotometric)	≤ 10 mg/dL
Sterility Testing (Current USP and EP)	
Bacteria & Fungi	No Growth
Virus Testing (9 CFR 113.53)	
Fluorescent Antibody	
Bluetongue	Not Detected
Bovine Adenovirus	Not Detected
Bovine Parvovirus	Not Detected
Bovine Respiratory Syncytial Virus	Not Detected
Bovine Viral Diarrhea Virus	Not Detected
Rabies	Not Detected
Reovirus	Not Detected
Cytopathogenic Agents - e.g. IBR	Not Detected
Hemadsorbing Agents - e.g. PI3	Not Detected
Mycoplasma	
(Large Volume, Direct Culture)	Not Detected
(Hoechst DNA Stain)	Not Detected

Biochemical Analysis (Provided For Information Only)

Proteins/Other

Albumin
Alkaline Phosphatase
Blood Urea Nitrogen
Cholesterol
Creatinine
Gamma Globulin
Glucose
Glutamic Oxaloacetic Transaminase (SGOT)
Glutamic Pyruvic Transaminase (SGPT)
High Density Lipo-Protein Cholesterol
Lactate Dehydrogenase
Low Density Lipo-Protein Cholesterol
Osmolality
pH
Phospholipids
Total Bilirubin
Total Protein
Triglycerides

Trace Metals/Iron

Calcium
Chloride
Copper
Inorganic Phosphorus
Iron
Magnesium
Percent Saturation (Iron)
Potassium
Selenium
Sodium
Total Iron Binding Capacity (TIBC)

Vitamins/Hormones

Carotene
Cyanocobalamine (B12)
Insulin
Nicotinic Acid (Niacin)
Progesterone
Pteroylglutamic Acid (Folate)
Pyridoxine (B6)
Riboflavin (B2)
Thiamine (B1)
Total Vitamin E (Tocopherol)
Vitamin A (Retinol)
Vitamin C
Vitamin D, 1,25 Dihydroxy
Vitamin H (Biotin)

Ordering Information

Name	Part Number/Unit Size
HyClone Super Low IgG FBS	SH30898.02 100 mL
HyClone Super Low IgG FBS	SH30898.03 500 mL

©2008 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries.

Cell Culture & BioProcessing

925 West 1800 South
Logan, UT
84321

In Americas/Asia
435-792-8000
435-792-8001 fax

In Europe
+32 53 85 71 80
+32 53 85 74 31 fax

www.thermo.com/hyclone

Thermo
SCIENTIFIC