

Fetal Bovine Serum (FBS)



Our Preferred FBS offers a quality level suitable for cultivating most cell types and is available at our most competitive price. We highly recommend our FBS customers try it out!

The Premium, Standard, and Qualified lines are available in both U.S. origin and USDA-approved Imported origin.



Our FBS is produced in a fully integrated system, overseeing every step from raw material collection to the finished product. This process ensures the highest standards are met, minimizing risk and variability while guaranteeing product safety and performance.

The origin of all imported USDA-approved sera is Australia or New Zealand. All Australia and New Zealand-origin sera are processed and manufactured in the United States, sourced exclusively from USA-approved and inspected slaughterhouses. These establishments are recognized as being free of foot-and-mouth disease and rinderpest.

All types of fetal bovine sera will be provided at pharmaceutical grade upon the customer's request.

All types of sera produced by GMP Bioscience company will be heat-inactivated and/or gamma-irradiated upon the customer's request

Fetal Bovine Serum

Premium FBS – (USDA Approved)

Catalog Number: FBS7010

This premium FBS is ideal for culturing the most sensitive cell lines and is suitable for a wide range of cell types, including macrophages, cancer-related cells, hybridomas, and more. It also performs exceptionally well with human primary cells and stem cells.

Our Premium Imported (USDA Approved) FBS offers:

- Endotoxin levels: ≤ 10 EU/mL
- Triple filtration through 0.1 μm filters
- Free of viruses and mycoplasma
- Origin: Imported (USDA Approved)

Fetal Bovine Serum

Premium FBS- USA Origin

Catalog Number: FBS7011

This premium FBS is ideal for culturing the most sensitive cell lines and is suitable for a wide range of cell types, including macrophages, cancer-related cells, hybridomas, and more. It also performs exceptionally well with human primary cells and stem cells.

Our Premium USA Origin FBS features:

- Endotoxin levels: ≤ 10 EU/mL
- Triple filtration through 0.1 μm filters
- Free of viruses and mycoplasma
- Origin: USA
- Pharmaceutical grade

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Fetal Bovine Serum

Qualified FBS – (USDA Approved)

Catalog Number: FBS7012

Our Qualified Imported FBS is an excellent option for general cell culturing, cell lines, and various applications.

Key features of our Qualified Imported (USDA Approved) FBS include:

- Triple filtration through 0.1 µm filters
- Free from viruses and mycoplasma
- Origin: Imported (USDA Approved)

Fetal Bovine Serum

Qualified FBS- USA Origin

Catalog Number: FBS7013

Our Qualified Imported FBS is an excellent option for general cell culturing, cell lines, and various applications.

Key features of our Qualified USA Origin FBS features:

- Triple filtration through 0.1 µm filters
- Free from viruses and mycoplasma
- Origin: USA

Fetal Bovine Serum

Preferred FBS

Catalog Number: FBS7014

Our Preferred FBS is an excellent choice for general cell culturing, cell lines, and various applications.

Key features of our Preferred FBS include:

- Triple filtration through 0.1 µm filters
- Free from viruses and mycoplasma

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Heat Inactivated Fetal Bovine Serum (FBS)

Heat inactivation is a process that involves heating serum to 56°C for 30 minutes to eliminate complements and contaminants that could interfere with experimental results.

Our FBS is produced within a fully integrated system, from raw material collection to the finished product, adhering to the highest standards to minimize risk, reduce variability, and ensure product safety and performance.

The origin of all imported USDA-approved sera is Australia or New Zealand. All Australia and New Zealand-origin sera are processed and manufactured in the United States, sourced exclusively from USA-approved and inspected slaughterhouses. These establishments are recognized as being free of foot-and-mouth disease and rinderpest.

Fetal Bovine Serum

Premium Heat-Inactivated FBS (USDA Approved)

Catalog Number: FBS7010-HI

This heat inactivation process neutralizes the complement system, preventing interference in experiments, particularly in immunology tests. It is ideal for research involving immune responses, viral studies, cytotoxicity assays, and stem cells.

Our Heat-Inactivated Premium Imported (USDA Approved) FBS offers:

- Endotoxin levels of ≤ 10 EU/mL
- Triple filtration through 0.1 μm filters
- Free from viruses and mycoplasma
- Origin: Imported (USDA Approved)

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Fetal Bovine Serum

Premium Heat-Inactivated FBS (USA Origin)

Catalog Number: FBS7011-HI

This heat inactivation process neutralizes the complement system, preventing interference in experiments, particularly in immunology tests. It is ideal for research involving immune responses, viral studies, cytotoxicity assays, and stem cells.

Our Heat Inactivated Premium USA Origin FBS features:

- Endotoxin levels of ≤ 10 EU/mL
- Triple filtration through 0.1 μ m filters
- Free from viruses and mycoplasma
- Origin: USA

Fetal Bovine Serum

Qualified Heat-Inactivated FBS (USDA Approved)

The heat inactivation process eliminates complement proteins that could interfere with certain experiments, particularly immunological tests. This FBS is ideal for research on immune responses, viral studies, cytotoxicity assays, and stem cells.

Key features of our Heat-Inactivated Standard Imported (USDA Approved) FBS include:

- Triple filtration through 0.1 μ m filters
- Free from viruses and mycoplasma
- Origin: Imported (USDA Approved)

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Fetal Bovine Serum

Qualified Heat-Inactivated FBS (USA Origin)

The heat inactivation process eliminates complement proteins that could interfere with certain experiments, particularly immunological tests. This FBS is ideal for research on immune responses, viral studies, cytotoxicity assays, and stem cells.

Key features of our Heat Inactivated Qualified USA Origin Fetal Bovine Serum include:

- Triple filtration through 0.1 µm filters
- Free from viruses and mycoplasma
- Origin: USA

Fetal Bovine Serum

Preferred Heat-Inactivated FBS

Catalog Number: FBS7014-HI

Our Preferred FBS is ideal for general cell culturing, cell lines, and a variety of applications.

Key features of our Preferred FBS include:

- Triple filtration through 0.1 µm filters
- Free from viruses and mycoplasma

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Specialty Fetal Bovine Serum (FBS)

In addition to our standard FBS lines, we provide specialized FBS tailored for more specific applications. Currently, we offer the following specialty options:

- Exosome Free FBS: Depleted level of exosomes
- Dialyzed FBS: Reduced concentration of small molecules
- Female Only FBS: Female only fetuses
- Charcoal Stripped FBS: Reduced concentration of non-polar molecules
- Lipid Depleted FBS: Reduced concentration of lipids
- Tet-Free FBS: Undetectable level of tetracycline (<1.0 ng/ml)

All of our specialty FBS products are also available in a heat-inactivated form upon request.

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Fetal Bovine Serum

Exosome Free FBS

Exosome Depleted FBS effectively removes Exosomes while preserving essential growth nutrients for cell culture, making it ideal for research applications where Exosomes may interfere.

Catalog Number: FBS70-E

Key features of our Exosome Depleted FBS include:

- Significant Exosome depletion
- Endotoxin levels: ≤ 10 EU/mL
- Triple filtered at 0.1 μm
- Free from viruses and mycoplasma

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Fetal Bovine Serum

Dialyzed FBS

Dialyzed FBS effectively lowers the concentration of small molecules (such as nucleotides, hormones, cytokines, amino acids, small proteins, salts, etc.), making it ideal for research where the usual levels of these molecules may cause interference

Catalog Number: FBS70-D

Key features of our Dialyzed FBS include:

- Reduced concentration of small molecules
- Triple filtered at 0.1 μm
- Free from viruses and mycoplasma

Fetal Bovine Serum

Only Female FBS

Catalog Number: FBS70-F

Our FBS is produced through a completely integrated process, from the collection of raw materials to the final product. It is created to the highest standards to minimize risk, decrease product variability, and ensure safety and performance.

Key features of our Female Only FBS include:

- Sourced exclusively from female donors
- Endotoxin levels: ≤ 1.0 EU/mL
- Sterile filtered at 0.2 μm
- Free from viruses and mycoplasma

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Fetal Bovine Serum

Lipid Depleted FBS

Catalog Number: FBS70-L

Lipid Depleted FBS effectively reduces lipid levels (such as free fatty acids, etc.), making it ideal for research applications where typical lipid concentrations may cause interference.

Key features of our Lipid Depleted FBS include:

- Lower concentration of lipids
- Triple filtered at 0.1 μm
- Free from viruses and mycoplasma

Fetal Bovine Serum

IgG Depleted FBS

Catalog Number: FBS70-I

GMP Bioscience's IgG Depleted FBS is manufactured using a proprietary chromatography process to meet a stringent IgG specification of $< 5 \mu\text{g/mL}$ while maintaining natural cellular viability and biological growth-promotion characteristics.

- Total IgG content below $5 \mu\text{g/mL}$
- IgG depleted FBS performs well in monoclonal antibody production
- Triple 0.1 μm filtered
- Large lot sizes >1000 Liters available
- All fetal bovine serum is fully traceable and is sourced from audited suppliers
- Storage conditions: $\leq -10^\circ \text{C}$

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ANIMAL SERUMS

The origin of all imported USDA-approved sera is Australia or New Zealand. All Australia and New Zealand-origin sera are processed and manufactured in the United States, sourced exclusively from USA-approved and inspected slaughterhouses. These establishments are recognized as being free of foot-and-mouth disease and rinderpest.

Horse Serum

Catalog Number: SER70-H

Our horse serum is sourced from pathogen-free, healthy horse herds. Each batch is 0.2 μm filtered to ensure the absence of microbial growth and to maintain low endotoxin levels. This serum is rich in macromolecules, growth factors, hormones, attachment enzymes, and supplements, all of which support robust cell growth. It can be used to enhance basal cell growth in both cell lines and primary cells. Additionally, it serves as a blocking buffer in immunoassays, including immunohistochemistry, immunofluorescence, and immunoblotting. Heat-inactivated serum can be provided upon request.

Goat Serum

Catalog Number: SER70-G

Our goat serum is obtained from pathogen-free donor herds. Each serum batch undergoes 0.2 μm filtration to ensure it is free from microbial contamination and has low endotoxin levels. The serum is rich in macromolecules, nutrients, enzymes, and hormones, making it suitable for enzyme assays and as a supplement for cell culture. It can be used to support the growth of most cell lines and primary cell cultures. Additionally, goat serum serves as a blocking buffer in immunoassays, including immunohistochemistry and immunoblotting. Heat-inactivated serum is available upon request.

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Donkey Serum

Catalog Number: SER70-D

Our donkey serum is sourced from pathogen-free donor herds. Each batch is filtered through 0.2 µm to ensure it is free from microbial contamination and has minimal endotoxin levels. This serum is rich in macromolecules, nutrients, enzymes, and hormones, making it suitable for enzyme assays and as a supplement in cell culture. It is most commonly used as a blocking buffer in immunoassays, including immunohistochemistry, immunoblotting, and immunofluorescence. Heat-inactivated serum is available upon request.

Rabbit Serum

Catalog Number: SER70-R

Our rabbit serum is obtained from donor animals that are pathogen-free. Each batch is filtered through 0.2 µm and tested to ensure it is free from microbial growth. The serum is rich in macromolecules, nutrients, enzymes, and hormones that support healthy cell growth. It can be used as a substitute for FBS in various cell culture models and as a blocking buffer for immunoassays. Heat-inactivated serum is available upon request.

Chicken Serum - Imported (New Zealand Origin)

Catalog Number: SER70-C

Chicken Serum is utilized as a supplement in cell culture media, offering a comprehensive range of macromolecules, carrier proteins for lipids and trace elements, attachment and spreading factors, low molecular weight nutrients, and hormones that foster cell growth and well-being. It is crucial to adhere to Good Cell Culture Practices and ensure the sterility of cultures requiring media supplementation. Chicken Serum is particularly suited for researchers in Cancer and Cell Biology. This product is intended solely for in vitro diagnostic, research, further manufacturing, or technical applications and is not designed for direct diagnostic or therapeutic use.

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Our New Zealand Chicken Serum is collected fresh from birds that have undergone thorough ante- and post-mortem veterinary inspections and are free from infectious and contagious diseases. During collection and processing, the serum is never mixed with any other animal-origin material.

Gamma Irradiated Fetal Bovine Serum (FBS)

Our FBS is gamma irradiated at an industry standard dose of 25-40kGy.

All types of sera produced by GMP Bioscience company will be irradiated upon the customer's request

Gamma Irradiation 101

Gamma irradiation is a physical inactivation approach used to achieve pathogen reduction in the serum. This mitigates risk from low-level contaminants that may not be detected through viral or mycoplasma testing. GMP Bioscience serum is gamma irradiated via controlled exposure to Cobalt 60 at an industry standard dose of 25-40kGy. Most typical viral contaminants of bovine serum are readily inactivated at this irradiation range. Advantages of gamma irradiation include:

No potential for residual contaminants

Widely accepted by pharmaceutical and research industries

Accepted by regulatory agencies

Minimal effect on product performance

Effective virus inactivation

Heat-Inactivated and Gamma-Irradiated Fetal Bovine Serum (FBS)

Heat inactivation is a process that involves heating serum to 56°C for 30 minutes to eliminate complements and contaminants that could interfere with experimental results.

Gamma irradiation is a physical inactivation approach used to achieve pathogen reduction in the serum.

The heat-inactivated FBS is gamma-irradiated at an industry-standard dose of 25-40kGy.

All types of sera produced by GMP Bioscience company will be heat-inactivated and/or gamma-irradiated upon the customer's request

Gamma Irradiation 101

Gamma irradiation is a physical inactivation approach used to achieve pathogen reduction in the serum. This mitigates risk from low-level contaminants that may not be detected through viral or mycoplasma testing. GMP Bioscience serum is gamma irradiated via controlled exposure to Cobalt 60 at an industry standard dose of 25-40kGy. Most typical viral contaminants of bovine serum are readily inactivated at this irradiation range. Advantages of gamma irradiation include:

No potential for residual contaminants

Widely accepted by pharmaceutical and research industries

Accepted by regulatory agencies

Minimal effect on product performance

Effective virus inactivation

Newborn Bovine Calf Serum

GMP Bioscience's Newborn Bovine Calf Serum (NBS) is a high-quality supplement for use in a variety of cell culture media. NBS can serve as a low-cost alternative to FBS while providing many of the same nutrients.

Catalog Number: NBS70

Purified from validated raw materials of the United States

Product Details

GMP Bioscience's Newborn Bovine Calf Serum (NBS) is a high-quality supplement for use in a variety of cell culture media. NBS can serve as a low-cost alternative to FBS while providing many of the same nutrients. NBS is manufactured and processed according to the highest standards and is carefully monitored to ensure product safety and performance. These standards are built in to GMP Bioscience's entire supply chain.

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- Average endotoxin level*: < 2 EU/ml (specification = \leq 35 EU/ml)
- Average hemoglobin level*: < 20 mg/dl (specification = < 30 mg/dL)
- 9CFR tested
- 0.2 μ m filtered
- US origin
- Storage conditions: \leq -10° C

Heat-inactivated Newborn Bovine Calf Serum, Gamma-irradiated Newborn Bovine Calf Serum or Heat-inactivated and Gamma-irradiated Newborn Bovine Calf Serum are available upon request.

- Heat-inactivated Newborn Bovine Calf Serum,

Catalog Number: NBS70-HI

- Gamma-irradiated Newborn Bovine Calf Serum

Catalog Number: NBS70-GI

- Heat-inactivated and Gamma-irradiated Newborn Bovine Calf Serum

Catalog Number: NBS70-HI/GI