

# Fetal Bovine Serum



## High quality tools for general cell culture

Animal sera, including Fetal Bovine Serum (FBS), are some of the most commonly used supplements for cell-based applications. Serum is an integral part of cell culture, vaccine development, and drug discovery, as it provides growth factors and essential nutrients to support the widest range of cell types.

Trusted worldwide by both academic and industry customers, Captivate Bio has become the go-to supplier for premium and specialty FBS and animal sera.

### Fast service and consistent supply

The team at Captivate Bio has been working with many of the leading global sera manufacturers for nearly a decade. Depending on your research, we offer the right serum at the right price without sacrificing quality. Our direct relationship with serum manufacturers allows for fast service and consistent supply, as well as lot reservation programs.

### Quality and traceability

All Captivate Bio FBS and animal sera undergo comprehensive quality assurance testing, profiling, biochemical analysis, cell performance assays, including cell growth and plating and cloning efficiencies, and rigorous virus testing. Serum is sourced within the United States and from countries that have been approved for importation by the USDA.

### Origin

Captivate Bio's FBS is a finished product manufactured under processes that meet USDA requirements for animal products. Through our manufacturing partners, all of our FBS is traceable back to the date and location of collection (origin).

FBS, USDA Origin is obtained from government inspected facilities within countries that are approved by the USDA for import into the United States. FBS, US Origin is collected from government inspected abattoirs in the United States.

### Premium products

Captivate Bio offers US and USDA origin products that are recognized as having a negligible risk of BSE and free from foot and mouth disease. A Certificate of Analysis indicating the country of origin is available for each lot of serum.

DESCRIPTION	SIZE	CAT. NO.
FBS, US Origin	500 mL	FBS1480
FBS, USDA Origin	500 mL	FBS1620

## Treatments

Captivate Bio offers FBS products that have undergone additional treatment to support sensitive culture applications.

TYPE	DESCRIPTION	SIZE	CAT. NO.
Heat-Inactivated	Heat inactivation of serum is performed by raising the temperature of the serum to 56°C and maintaining that temperature for 30 minutes. Heat inactivation is the method of choice to destroy complement protein activity	500 mL	FBS1620HA
Gamma Irradiated	Gamma irradiation of serum is intended to assure the complete removal of a virus and or viral inactivation	500 mL	FBS162GI

## Specialty Serum

Captivate offers a selection of serum products designed for specialty applications and sensitive cell cultures, including stem cell research, cancer research, reporter assays, immunoassays, and more.

TYPE	DESCRIPTION	PURPOSE	SIZE	CAT. NO.
Charcoal-Stripped	Commonly used to remove hormones that can impact cell growth	For researchers requiring controlled levels of specific types of hormones and growth factors	500 mL	FBS162CS
Exosome-Depleted	Depleted of ≥90% of endogenous exosomes and is intended for use in cell culture exosome isolation assays	For researchers who are interested in isolating exosomes from cultured cells without the complication of bovine exosomes that are present in standard FBS	250 mL	FBS162XD-250
Lipid-Depleted	Lipid-depleted FBS reduces the concentration of lipids (free fatty acids)	For research applications where the normal concentration of lipids may interfere with cell growth	500 mL	FBS162LD
TET-Free	Does not contain trace levels of tetracycline (or its derivatives) which have been observed to interfere with proper regulation of TRE-controlled gene expression	For researchers studying neuroscience, cancer research, drug screening, vaccine development, and gene editing	500 mL	FBS162TF

## Quality specifications

PRODUCT SPECIFICATIONS	PREMIUM FBS
Triple 0.1 micron filtration	✓
9 CFR virus testing	✓
Electrophoretic profile	✓
Mycoplasma	✓
Sterility	✓
Endotoxin	≤ 10.0 EU/mL
Hemoglobin	≤ 20 mg/dL
Osmolality	260 - 340 mOsm/kg
pH	7.0 - 8.0
Total protein	3.0 - 4.5 g/dL

Product specifications are representative of Premium FBS quality testing results. Please refer to the product Certificate of Analysis for lot-specific test results.

## Other animal serum available

Additional lower-cost alternatives to FBS are available, including newborn calf serum, donkey, goat, and horse serum.

DESCRIPTION	SIZE	CAT. NO.
Donor Donkey Serum	500 mL	DDS2800
Donor Goat Serum	500 mL	DGS2000
Donor Horse Serum	500 mL	DHS2700
Newborn Calf Serum	500 mL	NCS0700

**For more information or to request a quote, please visit [www.captivatebio.com](http://www.captivatebio.com), email [orders@captivatebio.com](mailto:orders@captivatebio.com), or contact our customer service team at (617) 607-4017.**