

## Product Information

### FBS Xtra

Fetal Bovine Serum  
sterile-filtered

FBS-16A (500 ml), FBS-16B (100 ml), FBS-26A (500 ml), FBS-26B (100 ml), FBS-56A (500 ml),

Cat. No. FBS-56B (100 ml), FBS-HI-16A (500 ml), FBS-HI-16B (100 ml), FBS-HI-26A (500 ml), FBS-HI-26B (100 ml),  
FBS-HI-56A (500 ml), FBS-HI-56B (100 ml)

### General Information

For decades, fetal bovine serum (FBS) has been an established additive in cell culture media. Its unique growth-promoting properties make it a valuable and essential ingredient for the cultivation of a wide variety of cell types. FBS is a complex mixture of proteins, growth factors, and many other components. It has not yet been possible to produce a synthetic growth additive with comparable performance.

Growing demand of serum with limited availability poses numerous animal welfare issues. With an increasing awareness on this problem, many researchers state that they would like to use less serum – without sacrificing performance.

In collaboration with the University of Applied Science Frankfurt, Capricorn Scientific developed an alternative to traditional FBS that is more controlled, defined, and less susceptible to the issues of serum supply.

FBS Xtra incorporates the key components for optimal cell growth making it possible to significantly reduce the serum content. The combination of these identified components and a lower serum concentration shows a positive influence on cell growth, morphology, and furthermore decreases cell stress while batch-to-batch variations are reduced to a minimum.

FBS Xtra is supplemented to cell culture media in the same concentration as your standard FBS (e.g., 90% medium with 10% FBS).

Product	Origin	Treatment	Volume	Cat. No.
FBS Xtra, Fetal Bovine Serum	Collected in South America	x	500 ml 100 ml	FBS-16A FBS-16B
FBS Xtra, Fetal Bovine Serum	Collected in South America	Heat Inactivated	500 ml 100 ml	FBS-HI-16A FBS-HI-16B
FBS Xtra, Fetal Bovine Serum	Origin USA	x	500 ml 100 ml	FBS-26A FBS-26B
FBS Xtra, Fetal Bovine Serum	Origin USA	Heat Inactivated	500 ml 100 ml	FBS-HI-26A FBS-HI-26B
FBS Xtra, Fetal Bovine Serum	Origin Australia	x	500 ml 100 ml	FBS-56A FBS-56B
FBS Xtra, Fetal Bovine Serum	Origin Australia	Heat Inactivated	500 ml 100 ml	FBS-HI-56A FBS-HI-56B

### Product Specifications

Appearance	Clear amber liquid
Storage and shelf life	Store at ≤ -15 °C. Avoid repeated freeze-thaw cycles. Preparation of aliquots recommended. Once opened, store at 4 °C and use within 4 – 6 weeks.
Shipping conditions	Frozen (dry ice)
Thawing	Overnight at +2 °C to +8 °C. Swirl gently to homogenize.

## Product Information

### FBS Xtra

Fetal Bovine Serum  
sterile-filtered

FBS-16A (500 ml), FBS-16B (100 ml), FBS-26A (500 ml), FBS-26B (100 ml), FBS-56A (500 ml),

Cat. No. FBS-56B (100 ml), FBS-HI-16A (500 ml), FBS-HI-16B (100 ml), FBS-HI-26A (500 ml), FBS-HI-26B (100 ml),  
FBS-HI-56A (500 ml), FBS-HI-56B (100 ml)

### Quality Control

---

The quality of our products starts with the sourcing of raw materials, which are only purchased from qualified suppliers and subjected to strict quality controls. After manufacture, the product undergoes extensive testing and only batches that meet all quality criteria are released for sale. Standard tests include pH, osmolality, total protein, albumin, IgG, hemoglobin, endotoxin content, sterility, mycoplasma, virus testing, and cell culture performance.

### Precautions and Disclaimer

---

This product is for research and further manufacturing use only. Please consult the Material Safety Data Sheet (MSDS) for information regarding hazards and safe handling practices.

### Help Needed?

---

If you have any further questions regarding this product, please do not hesitate to contact our cell culture experts by email ([techservice@capricorn-scientific.com](mailto:techservice@capricorn-scientific.com)) or phone (+49 6424 944640).