

Product Information

FBS Xtra

Fetal Bovine Serum

Cat. No. FBS-16B, FBS-16A, FBS-26B, FBS-26A, FBS-56B, FBS-56A

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 synthetical 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 | Volume | Cat. No. |
|------------------------------|----------------------------|--------|----------|
| FBS Xtra, Fetal Bovine Serum | Collected in South America | 100 ml | FBS-16B |
| | | 500 ml | FBS-16A |
| FBS Xtra, Fetal Bovine Serum | Origin USA | 100 ml | FBS-26B |
| | | 500 ml | FBS-26A |
| FBS Xtra, Fetal Bovine Serum | Origin Australia | 100 ml | FBS-56B |
| | | 500 ml | FBS-56A |

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. Do not heat inactivate! |
| Shipping conditions | Frozen (dry ice) |
| Thawing | Overnight at +2 °C to +8 °C. Swirl gently to homogenize. |

Quality Control

The quality of our products starts with the sourcing of raw material, which is 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.

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Precautions and Disclaimer

This product is for research 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) or phone (+49 6424 944640).