

## WHY US?



**Fast and Efficient  
Order Processing**



**Customer-Oriented  
Product Flexibility**



**Your Partner in  
Cell Culture**

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# FBS Xtra

*Controlled. Defined. Reduced.*



The Xtra for Your Cell Culture

# FBS Xtra

The More Defined Serum

Fetal bovine serum (FBS) is widely used in cell culture as an essential supplement to support cell growth. As a by-product of the meat and dairy industries, it is subject to natural variation in its composition.

Its unique growth-promoting properties make FBS an indispensable component for the cultivation of many cell types – a complete exclusion of serum is often not possible. Despite its significant function, there are numerous reasons to increasingly focus on a reduction in the use of animal sera.

Difficulties with standard serum:

- » Limited availability with price fluctuations
- » Lack of standardization
- » Batch-to-batch variations
- » Increased difficulty in reproducing scientific results

The development of serum-reduced media is playing an increasingly important role in the field of research. In collaboration with the University of Applied Science Frankfurt am Main, we have developed an alternative to conventional FBS.

To effectively support your research – financially or in terms of its valuable results – our FBS Xtra offers you a serum-reduced, defined FBS that is independent of price fluctuations, with excellent cell growth conditions for diverse cell lines.

## YOUR BENEFITS

AT A GLANCE

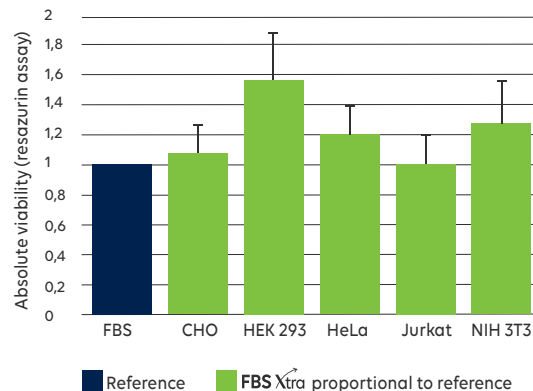
- ✓ Enormous serum reduction
- ✓ Independence from fluctuating serum prices
- ✓ Reduced cell stress
- ✓ Lower risk of undesirable side effects
- ✓ Progress towards better animal welfare without performance losses



### On which cells was FBS Xtra successfully tested?

#### CELL VIABILITY ASSAY

The cell viability of different cell lines cultured with FBS Xtra showed comparable or even better results compared to that of standard FBS.



The diagram shows cell lines commonly used in the laboratory. Your cell line is not included? No problem! We will be happy to send you any further information on request.

## FAQ

### What is FBS Xtra?

FBS Xtra is a formulation of fetal bovine serum in combination with recombinant, defined components of trace elements, amino acids, vitamins, and cofactors. The amount of serum has been significantly reduced compared to classic FBS, with no impact on performance and with consistent or improved growth characteristics.

### Why was FBS Xtra developed?

Serum-free products are gaining more and more interest. To specifically address this issue and continuously improve cell culture processes, we developed an alternative to conventional FBS that is more controlled, more defined and less susceptible to the problems of serum consistency. FBS Xtra preserves regular cell morphology while leading to better viability of your cells!

### Does anything have to be considered regarding its application?

FBS Xtra is used in the same way as your standard serum. It is usually added to the cell culture medium at a level of 10 %. Long-term storage is at  $-20^{\circ}\text{C}$  or up to four weeks at  $+2-8^{\circ}\text{C}$ .