CAPRICORN SCIENTIFIC

SEREXIS™

Your Serum-free Future Starts Here

Defined Performance
Beyond FBS

www.capricorn-scientific.com

DEFINING WHAT FBS DELIVERS

To go beyond FBS, we had to define what makes it work.

By combining years of expertise in FBS manufacturing with defined media design, we focused on what makes serum perform. Not by replicating the full complexity of FBS, but by identifying what consistently supports cell growth.

If FBS works across so many systems, its performance must rely on specific functional drivers in the right balance.

SEREXIS™ was developed capturing these performance drivers and translating them into a serum-free defined formulation to replace FBS without changing your workflow

WORKFLOW RELIABILITY
From adapting protocols to FBS to supporting cellular requirements by design

BATCH CONSISTENCY
From variable serum composition to defined batch-to-batch consistency

SERUM-FREE CULTIVATION
From animal-derived serum to a serum-free formulation

PERFORMANCE STABILITY
From performance shaped by batch quality to reliably high performance

THE NATURAL LIMITATIONS OF FBS

FBS became the standard in cell culture without ever being designed as one.

It is not defined, not fully controlled, and not optimized in a conventional sense. Yet it somehow works because its biological complexity supports cell growth across diverse systems.

FBS has shaped modern cell culture because it works. It has supported countless advances in research, biotechnology, and vaccine development by providing a broad biological foundation for cell growth.

But cell culture is entering a new phase. As workflows become more sensitive, regulated, and data-driven, it is no longer enough to accept performance without fully understanding and controlling the system behind it. This is where the undefined nature of FBS reaches its natural limits.

At Capricorn Scientific, we understand FBS from both sides: as scientists and as manufacturers. We know its strengths, but also the limits of an undefined biological system, including:

- Undefined Composition
- Inherent Batch Variability
- Restricted Reproducibility
- Supply & Sourcing Pressure
- Residual Viral Risk

„WHAT WAS MISSING

...WAS NOT ANOTHER WAY TO WORK AROUND THESE LIMITATIONS.

It was a defined alternative delivering FBS-like performance without FBS-like limitations.

UNTIL NOW."

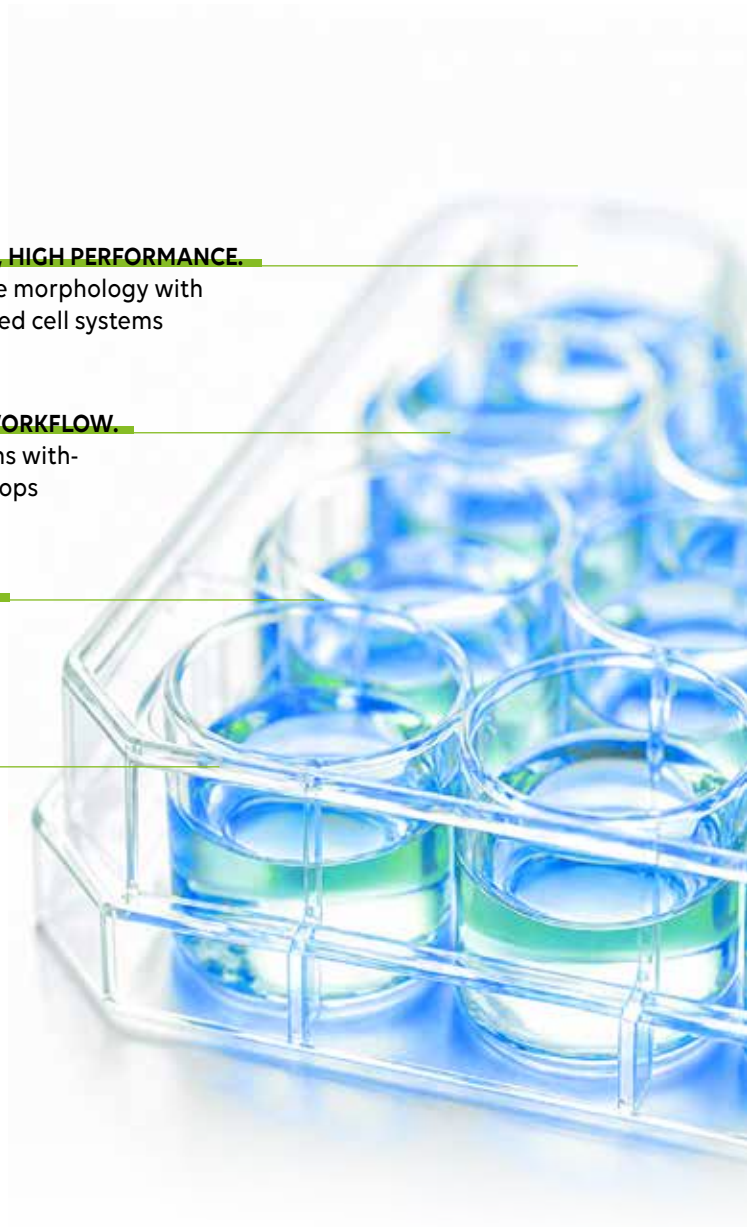
SEREXIS™ DEFINED PERFORMANCE BEYOND FBS

SERUM-FREE, HIGH PERFORMANCE.
Robust cell growth and stable morphology with multiple established FBS-based cell systems

SWITCH THE SUPPLEMENT. KEEP THE WORKFLOW.
Direct replacement at FBS concentrations without protocol redesigns or optimization loops

SAME INPUT. MORE PREDICTABLE OUTPUT.
Defined and homogeneous formulation contributing to reliable and consistent readouts

SECURED SUPPLY FOR RELIABLE PLANNING.
Reliable planning beyond FBS batch availability due to defined formulation and controlled raw material sourcing



ORDER INFORMATION

PRODUCT	UNIT	CAT.NO.
SEREXIS™ 180 Sample Kit Defined FBS Replacement for Multiple Cell Types, with Lipid Mix 180, sterile-filtered	KIT	**ZER-K1** 1 x ZER-100ML 1 x LIX-3ML
SEREXIS™ 180 Defined FBS Replacement for Multiple Cell Types, sterile-filtered	500 ml 100 ml	**ZER-500ML** **ZER-100ML**

PRODUCT	UNIT	CAT.NO.
Lipid Mix 180 Chemically Defined Concentrate, sterile-filtered	10 ml 3 ml	**LIX-10ML** **LIX-3ML**

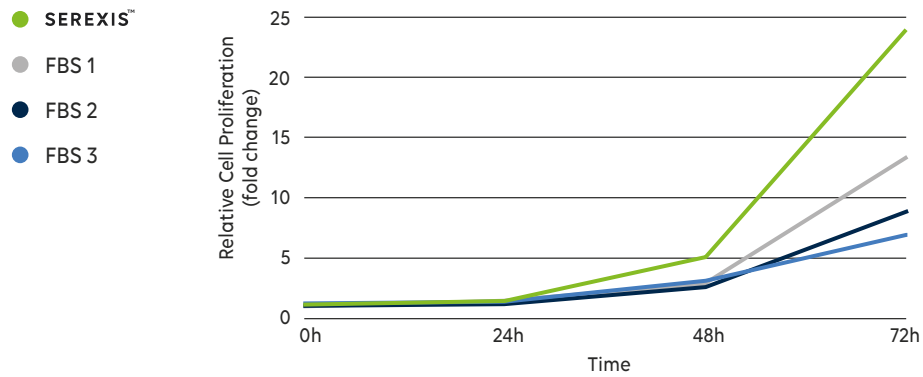
WANT TO LEARN MORE?
Scan the QR code for additional insights and ordering options.

ONE SUPPLEMENT FOR MULTIPLE CELL TYPES

SEREXIS™ has been evaluated across multiple cell lines and primary cells in diverse applications in many different laboratory settings and applications

Immune Cells, HEK293T Cells, BHK-21 Cells, Muscle Cells, Primary Keratinocytes, PG-4 Cells, MDCK Cells, MDBK Cells, HeLa Cells, Vero Cells, A549 Cells and many more.

A | **Proliferation**



B | **Transfection**

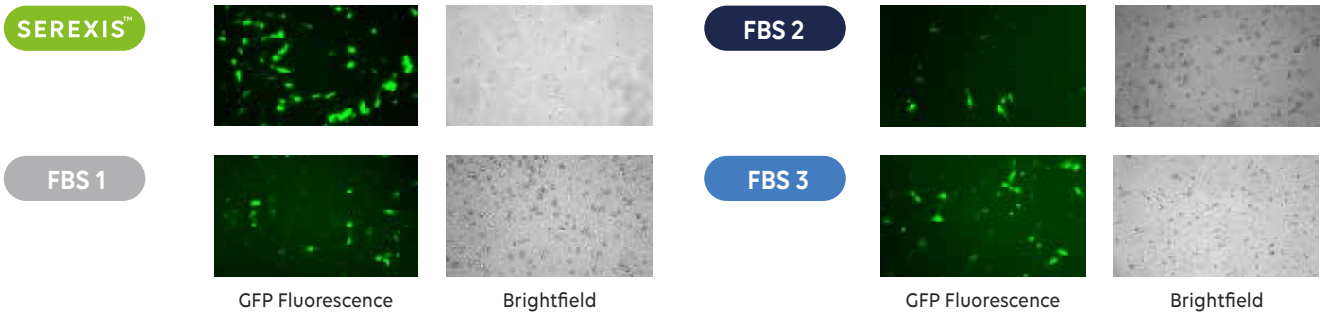


Fig. 1) Proliferation (a) and transfection (b) of C2C12 cells cultured in medium supplemented with different FBS products and **SEREXIS™**.

Data provided by Christina Münzing, Laboratory of Dr. Olivier Kassel, Karlsruhe Institute of Technology (KIT), Institute of Biological and Chemical Systems – Biological Information Processing (IBCS-BIP).

COMING SOON

PRODUCT	UNIT	CAT.NO.
SEREXIS™190 Qualified Sample Kit Defined FBS Replacement for Diagnostic Applications, with Lipid Mix 180, sterile-filtered	KIT	**Q-ZER-K1** 1 x P-ZER-100ML 1 x LIX-3ML
SEREXIS™190 Qualified Defined FBS Replacement for Diagnostic Applications, sterile-filtered	500 ml 100 ml	**Q-ZER-500ML** **Q-ZER-100ML**

PRODUCT	UNIT	CAT.NO.
SEREXIS™200 Biopharma Grade Sample Kit Defined FBS Replacement for Vaccine Production, with Lipid Mix 180, sterile-filtered	KIT	**B-ZER-K1** 1 x B-ZER-100ML 1 x LIX-3ML
SEREXIS™200 Biopharma Grade Defined FBS Replacement for Vaccine Production, sterile-filtered	500 ml 100 ml	**B-ZER-500ML** **B-ZER-100ML**

THE RIGHT CHOICE FOR YOUR CELLS

Fast and Efficient
Order Processing

Customer-Oriented
Product Flexibility

Your Partner in
Cell Culture

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