



sartorius stedim
biotech

Total solution provider for next generation biomanufacturing



turning science **into solutions**

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Turning science into solutions

At Sartorius Stedim Biotech, we work together for one primary goal: To provide our customers with the best solutions for their processes. That's why we deliver across the board. Our products and services cover the biopharmaceutical industry's entire process chain – from development and quality assurance to production. We are your experts for single-use and reusable technologies and added-value services. Our forte lies in helping you produce biopharmaceuticals rapidly, reliably and profitably.

Strong global leader in technology and innovation

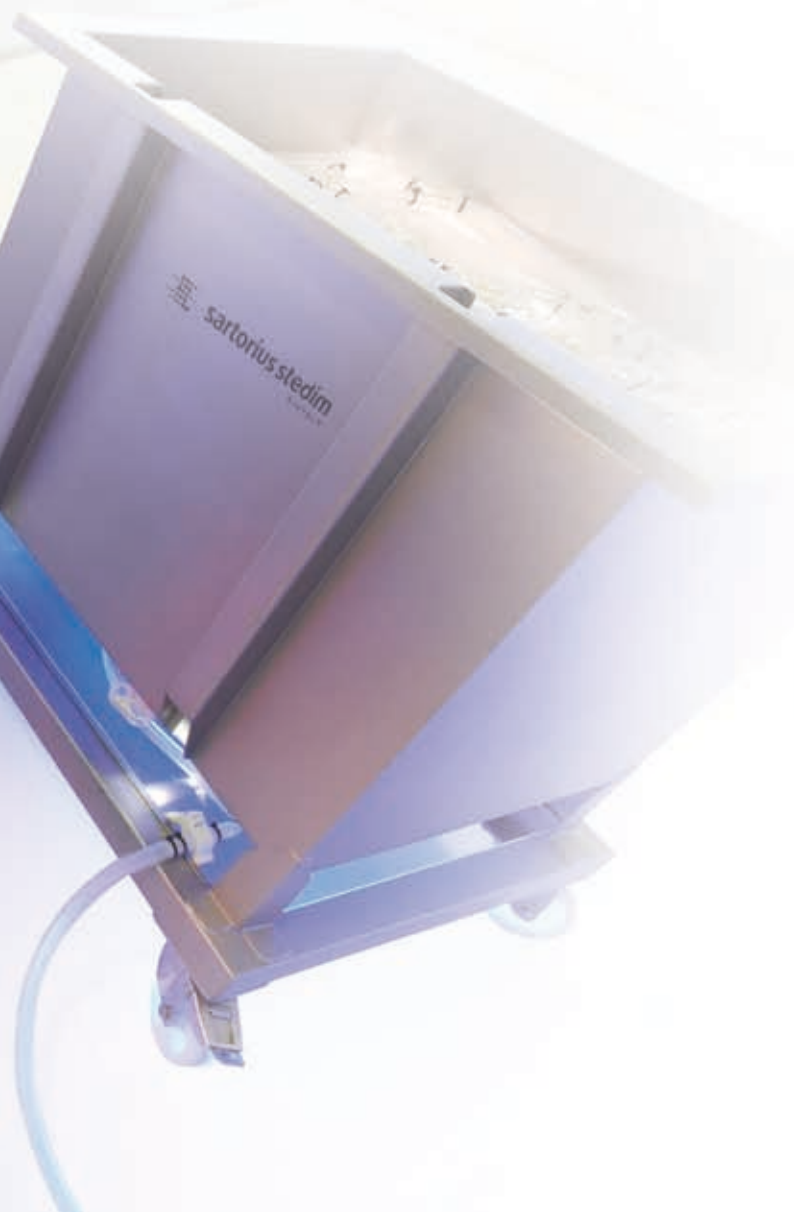
Our strong roots in the scientific community and close collaboration with customers and technology partners stand as proof of our dedication to the company philosophy of "turning science into solutions." Sartorius Stedim Biotech makes this a reality every single day – all across the globe. As pioneers in single-use biopharmaceutical technologies, we set the trends in fermentation, filtration, purification, fluid management and laboratory technologies as well as a in host of related services.

We're your complete source

Sartorius Stedim Biotech offers the most comprehensive range of innovative products and services for your entire development and production process: from discovery of target drugs, process development, scale-up and manufacture all the way to regulatory compliance. We know how to help you perfect the interaction between upstream and downstream process steps. Our scalable products featuring consistent technologies enable you to develop your processes fast, flexibly and cost-efficiently. Discover how Sartorius Stedim Biotech will leverage your time to market, compliance and manufacturing costs.

Your success matters to us

We work side by side with you to create the best, innovative solutions just right for you. Because we know that every process is unique. Whether conducting on-site plant and process surveys together with you or testing processes at our technical support centers and pilot plants, our specialists are committed to meeting – and exceeding – your needs. This is why customers have come to rely on us for our outstanding technical support and expertise.



At home around the globe





Engineering of process-scale production lines in Bangalore



● Sales
● Production | Production and sales



Creating success together

Sartorius Stedim Biotech — we are more than 2,300 employees strong. Every individual shapes our company's special identity through his or her personality, nationality and culture. Sartorius's employees are appreciated the world over for their profound knowledge, exceptional skill, outstanding commitment and many years of experience. Working as a global team, they deliver the results you need to succeed in your business.

We are where you need us

With production and R&D facilities on three continents and a global network of sales companies, Sartorius Stedim Biotech is available to serve your needs around the globe. Our strong local teams are thoroughly familiar with your specific regional standards and requirements. Thinking globally and acting locally — this is the perfect combination to give you custom-tailored Sartorius Stedim Biotech solutions wherever you need us.



Top: Production of single-use bags in Aubagne, France

Center: Key manufacturing and R&D in Göttingen, Germany

Bottom: QC laboratory in Puerto Rico

Stay ahead with our
single-use technologies



Single-use products and applications

- Advanced cell culture systems and bioreactors for lab and process scale
- Scalable range of filter capsules for upscale- and downscale applications
- Scalable range of capsules for membrane chromatography and virus filtration
- Scalable range of crossflow cassettes
- Aseptic bags, containers and fluid management systems
- Aseptic transfer systems
- Leading-edge sensors
- Customized solutions



Membrane chromatography with Sartobind® Q Mega

Single-use technologies and equipment from Sartorius Stedim Biotech enable you to meet the rapidly changing requirements of the biopharmaceutical industry. Join our regular customers who rely on Sartorius Stedim Biotech single-use products in all biopharmaceutical process phases to enhance their production capacity and

process flexibility, while maintaining the highest quality. Our single-use concepts prevent cross-contamination during protein capture, eliminate cost-intensive cleaning cycles and validation, and save time when you need to produce different products simultaneously.



Top: MaxiCaps® for upstream and downstream applications

Bottom: Biosafe® fluid transfer system

Total solution provider for next generation biomanufacturing





Fermentation technologies

The widest range of bioreactors and fermentors from benchtop to process scale and from single-use to reusable technologies.

Filtration technologies

A complete, scalable array of filter capsules and cartridges for all bioprocessing steps – backed by decades of experience in filter technologies.

Purification technologies

Leading in crossflow filtration, membrane chromatography and virus clearance technologies for state-of-the-art initial recovery and polishing or contaminant removal in biomanufacturing.

Scalable laboratory technologies

Advanced and scalable cell culturing, filtration and purification technologies as well as microbiological analysis and lab water systems.

Fluid management technologies

Pioneers and leaders in single-use systems, freeze-thaw processing and aseptic transfer systems, with the most extensive capabilities for creating fully integrated, single-use biomanufacturing solutions.

Services

Dedicated experts for process optimization, validation, regulatory support as well as equipment qualification and maintenance – rapidly deployable and globally available.



Products and applications

- Autoclavable bioreactors
- Production bioreactors
- Single-use bioreactors
- High-throughput bioreactors
- Perfusion bioreactors
- Controller and data log-in towers
- Reusable and single-use sensors

Fermentation technologies

Sartorius Stedim Biotech supplies the widest range of bioreactors and fermentors, from benchtop to process-scale and from single-use to reusable versions. Its BIOSTAT® series is synonymous worldwide for cutting-edge technology and the most advanced software tools. What's more, their modularity enables you to upgrade available installations conveniently and cost-effectively.

Sartorius Stedim Biotech performs process modelling to provide the widest variety of pace-setting agitation and gassing strategies for its reusable and single-use bioreactor portfolio. This gives you a real choice to suit your specific application needs.



Parallel and fully independent control of up to twelve scalable culture vessels with BIOSTAT® Q plus



Engineering and installation of process-scale production lines at Sartorius Stedim Systems in Melsungen, Germany



Autoclavable BIOSTAT® A plus fermentor system for educational and R&D applications

Filtration technologies



Top: In-situ integrity testing
in production

Bottom: Filterability
verification trial run for
optimizing filtration
processes



Sartorius Stedim Biotech's scalable array of filter capsules and cartridges for all bioprocessing steps is backed by decades of experience in filter technologies. Brand names like Sartopore®, Sartobran® and Sartoclean® deliver outstanding filtration results and reliability that outperform the benchmarks.

Sartorius Stedim Biotech's filtration performance is not just limited to providing outstanding flow rates, throughputs or yield enhancements. It is also supported by a rigorous quality and process control system to guarantee the highest batch-to-batch consistency, quality and traceability. Moreover, our knowledgeable experts who actively shape regulatory policies provide application and validation services to ensure your regulatory compliance, no matter where you are in the world.



Single-use MidiCaps® sterilizing-grade filter

Products and applications

- Pre- and clarification filters
- Sterilizing-grade filters for liquids
- Sterilizing-grade filters for air and gas
- Specialty filters for mycoplasma removal
- Filter integrity test systems
- Filter housings
- OEM and diagnostic membranes



Products and applications

- Cell clarification | Removal
- Membrane chromatography
- Ultrafiltration
- Concentration and diafiltration
- Virus clearance

Purification technologies

Purification is the highest value-adding step within the biopharmaceutical manufacturing process. To meet your requirements for product quality, productivity and efficiency, we provide solutions that go beyond current conventional limits. Our sophisticated concepts employ integrated unit operations and scalable single-use technologies.

Our Sartobind® technology for membrane chromatography is a benchmark in the industry and is currently revolutionizing the world of biochromatography for "polishing." Moreover, our crossflow cassettes incorporating our innovative, proprietary Hydrosart® membrane boost your product yield and performance. Novel tools and an integrated technology platform for virus clearance keep your products safe.

Our highly knowledgeable and experienced application specialists are eager to assist you on site for developing your applications and implementing your processes – all over the world. Sartorius Stedim Biotech is your partner of choice for state-of-the-art initial recovery and contaminant removal.



Top: Virus filtration with single-use Virosart® CPV filter capsules



Bottom: Process-scale multilayer single-use depth filter for initial recovery in cell culture processes



Ultrafiltration with Sartocoon® crossflow cassettes

Fluid management technologies



Products and applications

- Aseptic bag assemblies
- Containers
- Transportation systems
- Mixing systems
- Transfer systems
- Connecting and disconnecting systems
- Freeze and thaw systems
- Drug delivery systems



Sterile tube fusing with BioWelder™

Sartorius Stedim Biotech is the pioneer and leader in single-use systems and aseptic transfer systems, with the most extensive capabilities for creating fully integrated solutions. Flexel® and Flexboy® bags have proven their efficacy over a million times in single-use fluid management applications. And our solutions for freeze-thaw processing are sophisticated beyond state-of-the-art technology.

Thanks to our unique experience in single-use systems, we engineer and manufacture customized products and assemblies with the same high level of quality and reliability of uninterrupted, long-term supply capability as for our standard products.



1500 L Palletank®

Aseptic fluid transfer using Biosafe® RAFT technology





arium® for ultrapure water in media preparation and analytical applications

SuperSpinner D 1000 single-use bioreactor for lab-scale cell cultivation and Vivaflow® 200 for protein concentration

Scalable laboratory technologies

Join our key customers who have selected Sartorius Stedim Biotech as their preferred partner for research and development in the biotech industry and the public sector. We provide advanced and scalable cell cultivation, filtration and purification equipment as well as a broad range of microbiological testing equipment and lab water systems.

Benefit from the comprehensive Sartorius Stedim Biotech product and service portfolio designed for development and optimization of your production processes. Experience just how much faster, safer and more economically you can scale up your processes with predictable results, all the way from lab to production scale.



Products and applications

- Filtration
- Protein concentration and purification
- Microbiological analysis
- Cell cultivation systems
- Laboratory water systems
- Homogenizers and centrifuges



Biosart® single-use funnels and Microsart® e.Motion filter dispenser for colony count applications

Dedicated Services



Our capabilities are your key to success. Source all your needs from one reliable partner for process optimization, customized validation and regulatory support, backed by practical training courses and instrument services.

We are aware of our responsibilities toward the success of your business, and take them seriously. That's why we are rapidly deployable and globally available. You can expect the very best in science-driven consulting services, maximum regulatory expertise by our specialists – who are active on international advisory and regulatory boards – fast turnaround, on-site support and globally valid standards from Sartorius Stedim Biotech. But don't take our word for it. We invite you to see for yourself. Count on the people who know your industry inside and out: Sartorius Stedim Biotech.



Top: Instrument services – we take our responsibilities seriously in order to ensure your productivity

Bottom: Comprehensive, documented validation studies in just 30 days



Range of services offered

- The most comprehensive validation studies for filters, bags and many other process components
- 30-day commitment for any validation study
- IQ/OQ support
- Equipment maintenance and emergency repairs
- Training seminars and customized workshops



To us, full service means testing all your suppliers' products, not just ours

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