



Bioprocessing Media and Buffers

Grow With Us

Simplifying Progress

SARTORIUS

Experience

*“Highly Experienced Media Specialists
to Respond Efficiently to Your Media
and Buffer Needs”*

- Leading position in single-use applications including fluid management, filtration and fermentation technologies
- Pioneer in state-of-the-art micronization high-quality powder production process and fermentation technologies
- Robust QC | QA oversight
Risk minimization approach

Industry Leader

50 years of culture media experience backed by 150 years of pharma industry innovations

Transparency

Sharing experiences to bring added value and fit-for-purpose products

- ISO certification with successful audit track record following Current Good Manufacturing Practices 21CFR820
- Media Optimization Expertise And Custom Production Services tailored to your needs
- Excellent regulatory dossier support

SARTORIUS

Florenz Sartorius mechanical workshop is founded

Sartorius starts commercial-scale manufacturing of membrane filters

Sartorius is founded as the original manufacturer of EVA plastic bags for total parental nutrition

Stedim creates the market for bag systems used in biopharmaceutical manufacturing processes

1870	1922	1948	1970	1974	1979	1990	1994
Foundation of Lonza AG Electricity Works		Microbiological associates	Whittaker Bioproducts: BioWhittaker Media	Grand opening of the Walkersville facility in Maryland, USA			Initial manufacture of liquid media in Verviers, Belgium, EU



Sartorius acquires Vivascience	Sartorius acquires B. Braun Biotech	Sartorius Stedim Biotech is established by the reverse merger of Sartorius AG's Biotech division into Stedim	Sartorius acquires Wave Biotech	Sartorius acquires TAP Biosystems	Sartorius acquires IntelliCyt and ViroCyt	Sartorius acquires Essen BioScience	Sartorius acquires DanaHER and Nosasep's chromato- graphy process equipment division	Sartorius acquires BIA separation
1999	2000	2007	2008	2013	2016	2017	2020	2021

SARTORIUS

Acquisition of
Cambrex
Bioscience
division by Lonza

Complete
offering with
complementary
product lines to
solve all your
bioprocessing
needs

Flexibility to Meet Your Growing Needs



Research

Development

Pre-Clinical

Phase I

Phase II

"Sartorius offers a wide array of Liquid | Powder media and buffer solutions scalable from clinical trials to commercialization"

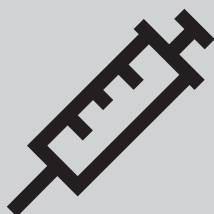
Proteins



Antibodies



Vaccines



Cell Therapy





Pilot

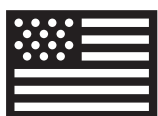
Manufacture

Phase III

Commercial



Liquid: 1 to 10,000 L / per batch
Powder: 7 to 7,000 Kg



Dual ISO-Certified** Manufacturing Sites on two different continents

Features

Wide range of primary and secondary packaging

Off-the-shelf to fully customized solutions

Formulation options include AO | NAO*, Serum-free, protein-free with full traceability

Benefits

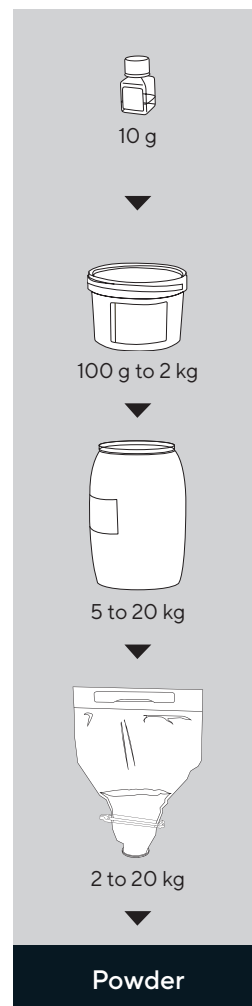
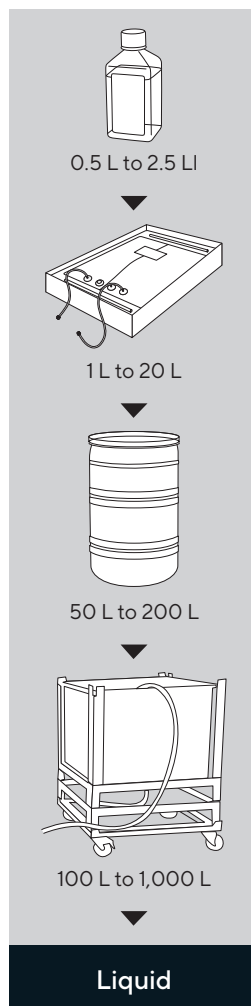
Fit your product and package to your process

Full product lifecycle support from bench to blockbuster

Unrivalled support of your regulatory dossier requirements

* NAO: Non Animal Origin or Animal-Derived-Component Free

** ISO9001:2015 and 13485:2012 producing according to cGMP21CRF820 guideline



Complete Solution Optimized by Our Experts

Full Range of Quality Media

Off-the-shelf or Custom

- **Wide range of Cell Culture Media and Buffers available in liquid | powder in preferred packaging**
- **Early Stage Offering: Cell Line Development and Media Selection**
High Quality and performance proven serum-free formulations
- **Media Optimization**
Support for screening of commercially available standard offerings or personalized dedicated support (CHOptimizer®)
- **Fast and Clean Pilot Offering:**
Expedited production option for liquid and powders using same raw material sourcing as our large scale manufacturing

Powder Media...

Pioneering powder media manufacturing techniques for optimal product: high solubility, batch consistency, and performance.

...and Buffers

Available in a range of sizes as sterile-filtered Liquids or in modern pre-measured powder formats



One Point of Contact, One Stream Solution

Features

Media and buffers in Sartorius bags

All Media Filtered through Sartopore® 2 family of proprietary Filters

Pre-weighed Powder Media and Buffers in bags and liners

Products fully integrated into the Sartorius upstream and downstream solutions

Benefits

Qualified Film and Assurance of Supply

High level of Scale Up success and Quality

Innovative and Cost-Effective solution for Media Preparation

One Single point of contact for all Project Needs

Media Specialists Expertise

- Dedicated Media Specialists for your Media and Buffer needs
- Worldwide presence
- Experience in Process Optimization and Buffer usage
- Use of Innovative toolbox to meet your requirements



Media Optimization Service

- Design Media and Feeds suitable for your needs
- Support via DoE approach and quality attribute results analysis
- Link with R&D expertise



Powder in Bags

Innovative Solution of pre-mixed Buffer and Media compatible with Sartorius Mixing Systems



Fully Integrated Into Your USP | DSP Process

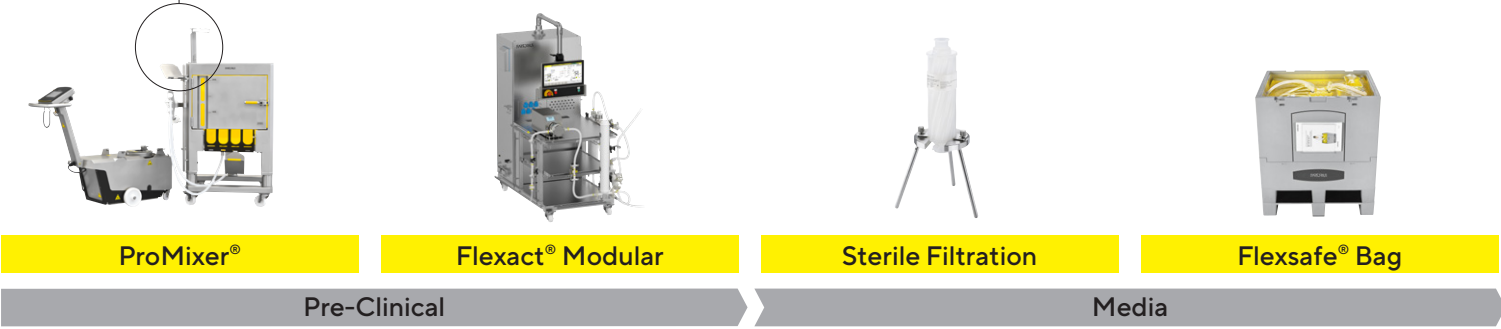
Cell Culture Media

Media and Feeds in optimal packaging adapted to your needs

USP | DSP Elements Processing Path

A Media Solution to Fit Your Cell Line, Schedule and Budget

Media | Buffer Preparation



Post-Viral Downstream Process



Cell Culture Media

Media and Feeds in optimal packaging adapted to your needs



Sterile Filtered Media and Buffers in Sartorius Bags

Ready-to-use solution connectable to your Upstream and Downstream equipment



Cell Growth Media
Buffers

Upstream Process



Biostat® B, RM, UniVessel

Biostat STR®

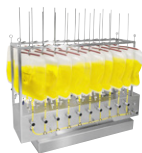
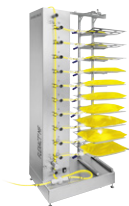
Sartobind®

Low-pH Virus Inactivation

Feeds

Wash | Equilibration | Elution buffers

pH Adjustments buffers



Filling

Freezing

Dilution | Stabilization buffers

Global Facilities

For more information about our collaboration and for a complete list of our offices worldwide, please visit www.sartorius-stedim.com/media-buffer




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Specifications subject to change without notice.

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