SARTURIUS

Advancing Antibody Purification With Essential Lab Equipment

The Right Tools, Right From the Start

Molecule development is used to design, engineer and optimize new therapeutic biomolecules, such as antibodies. It allows scientists to tailor each target molecule to meet the desired therapeutic and production criteria.

The molecule development process depends on efficient separation technologies to purify the target molecule for characterization and preclinical validation. Sartorius offers a complete range of solutions that solve common challenges in molecule separation workflows.

Expression of an antibody in

Antibody Production

mammalian cell culture (e.g. CHO)

Featured Solution: Ultroser G

Semi-defined serum substitute

- and FCS substitute Batch-to-batch reproducibility;
- no need to batch test Low protein content





Sterile Filtration Cells are removed from antibodycontaining media by microfiltration

Clarification and

with a filter aid Featured Solution:

Clarify cell cultures in minutes

Out-of-the box solution

Sartoclear Dynamics® Lab

- Fast and effortless
- No need for centrifugation

Diafiltration The clarified sample is concentrated and re-buffered by

Ultrafiltration and

tangential flow filtration (TFF) Featured Solution: Vivaflow® SU

More intuitive and costeffective setup

- High performance without optimization





chromatography

Purification

Antibodies are captured and

Faster antibody capture

Featured Solution: Sartobind® Rapid A Lab Easier, reproducible purification, system-free and without blocking

polished by affinity and ion exchange

Cost efficient thanks to higher yields

Featured Solution: Vivaspin[®] Turbo Better reagent resistance

its final buffer formulation

Shorter process times



of $6.2\,\mathrm{cm}^2$ High flow rate

Featured Solution: Minisart® High Flow

Sterilization

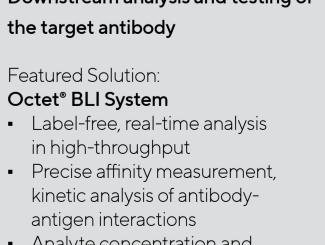
Low hold-up volume

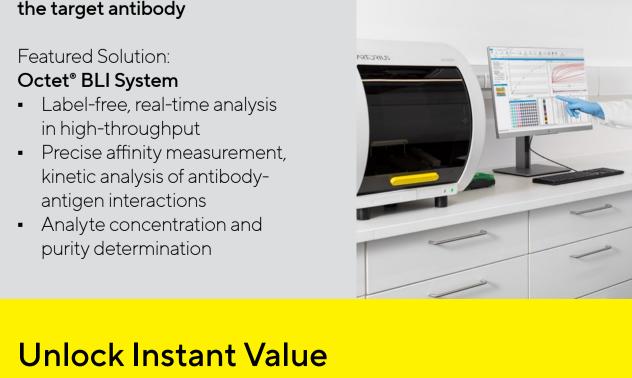
Particles are removed and bioburden

Large effective filtration area (EFA)

is eliminated by microfiltration

- High total throughput





Basic tasks like filtration and purification can be time consuming and tedious. Our high-quality, innovative solutions help to streamline molecule isolation

- workflows:
- Reduce complexity with easier setup and fewer steps. Maximize process efficiency with unique technologies and product designs.

Increase the reproducibility of your results.

