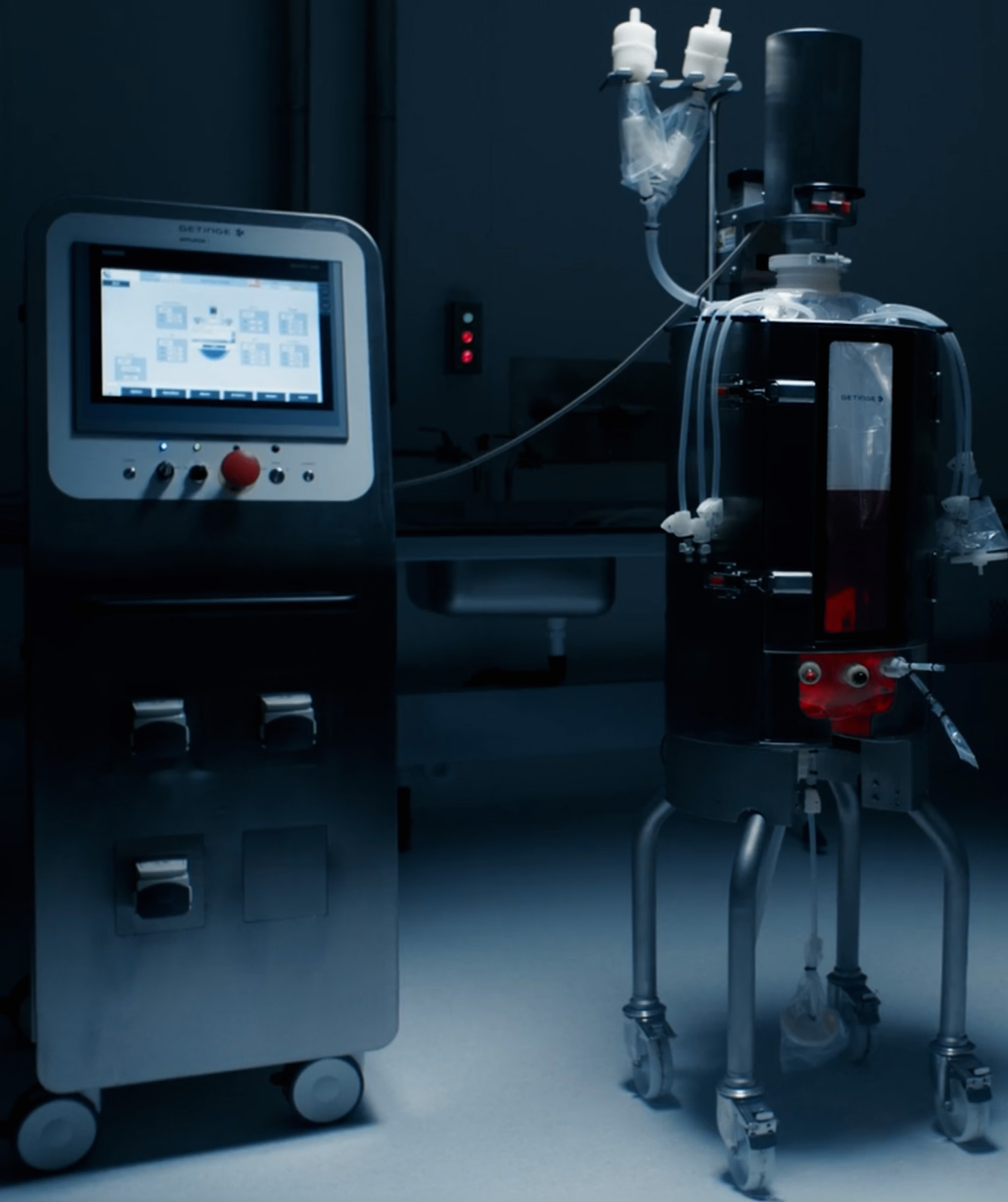


It's SUPR

The intuitive **Single-Use Production Reactor** system, built on proven Applikon design, that helps you simplify your bioprocesses and speed up development.



Why single-use?

When it comes to bioprocessing, product purity is critical. Cross-contamination is a real challenge for labs and production facilities, and associated cleaning and validation procedures can lead to downtime and significant resource expenditure.

Single-use bioreactors not only help streamline and speed up process and product changeovers, they also reduce the risk of cross-contamination and of operators being exposed to toxic cleaning agents and other hazardous substances.

SUPR offers all the benefits of single-use bioprocessing, including:



No risk of cross-contamination between products



Click-n-Go bag loading for easy use



All-in-one single-use cultivation container for fast start-up and changeover

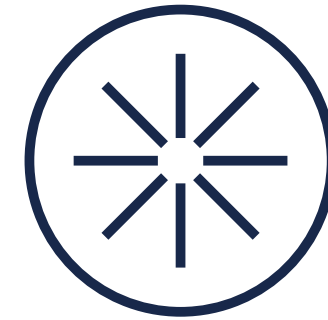


Save time on cleaning and validation procedures



Low risk of operator exposure

Explore **SUPR simple** bioprocessing



The SUPR is part of our comprehensive bioprocessing portfolio that takes you all the way from research to production.

The SUPR system consists of four core components for cultivation:

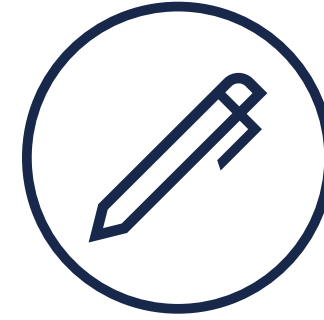
- SUPR C³ (cell cultivation container) bioreactor
- SUPR holder
- Temperature control unit
- Controller

The SUPR cultivation container arrives sterilized, assembled, and ready to use. The innovative Click-n-Go bag loading system of the SUPR holder together with the intuitive tube management system enables easy installation by just one operator.

Getting started is as simple as that.



Discover SUPR design



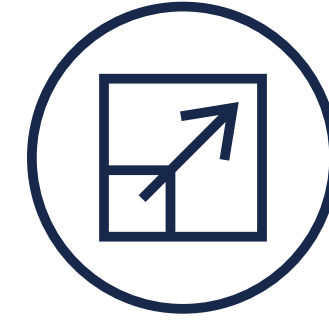
With a dished bottom and specific height-to-diameter ratio, the SUPR is built using an established Applikon design that is based on over five decades of bioprocessing experience.

The C³ bioreactor contains a top-centered impeller, sparger, overlay gas inlet, addition ports, single-use sensors, temperature sensor port, sampling port and a harvest drain.



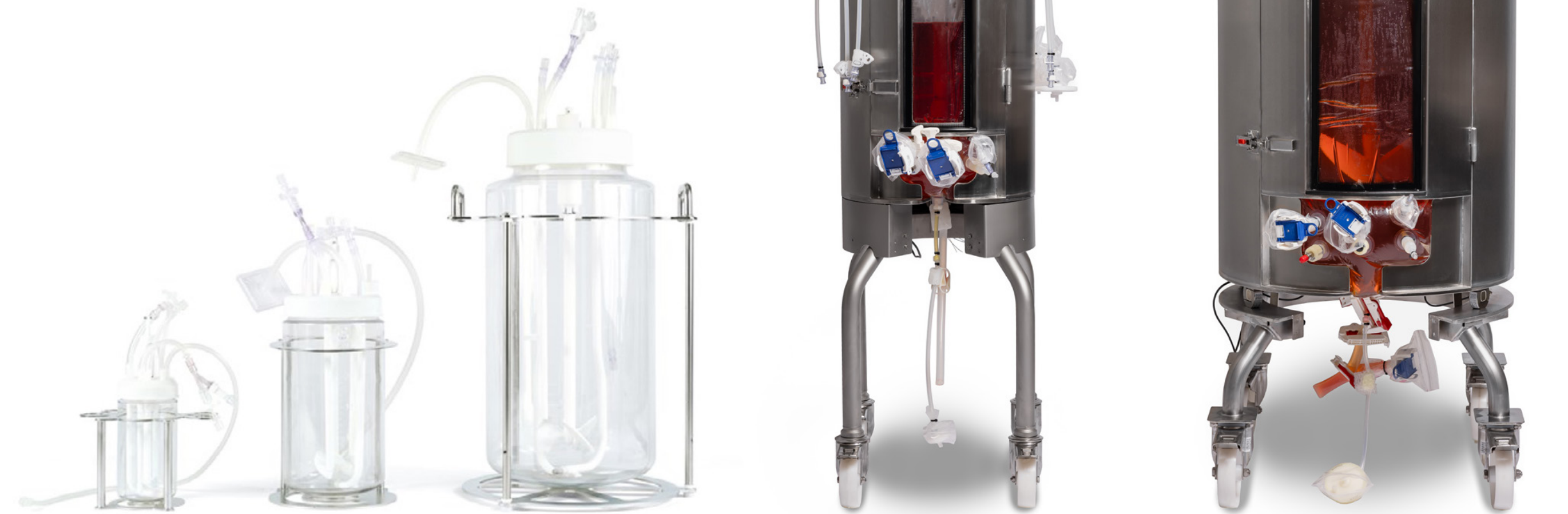
Click the buttons on the image to learn more

Enable a **SUPR** scalable set up



The SUPR system is designed to be a single-use alternative to traditional stainless steel bioreactors at pilot and production scale. This allows for cultivations to continue from research to production with one trusted single-use platform. R&D and process optimization performed in the AppliFlex ST can now be easily scaled up using the SUPR.

The SUPR supports scalability with various volumes, starting with 50- and 250-liter cultivation containers now and a 1000-liter cultivation container coming in 2025.



500 mL

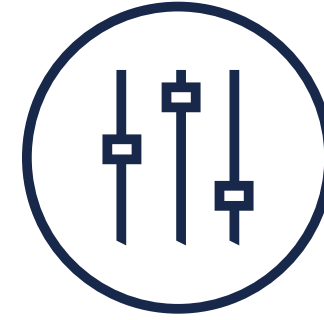
3 L

15 L

50 L

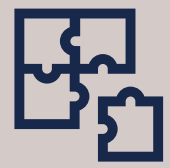
250 L

Optimize with SUPR control

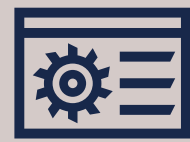


As a reliable and robust solution that easily integrates with other software in your manufacturing facility, our Pro-Control controller is compatible with the **DeltaV™ DCS, Siemens, or Allen Bradley PLCs** and can be configured to match your process requirements.

For a cost-effective solution at research and pilot scale, the SUPR system can also be combined with the Livit Flex, which uses our intuitive Livit software.



Compatible



Configurable



Cost-effective



Click the buttons on the images to see a detailed view of the interface



Expect SUPR results



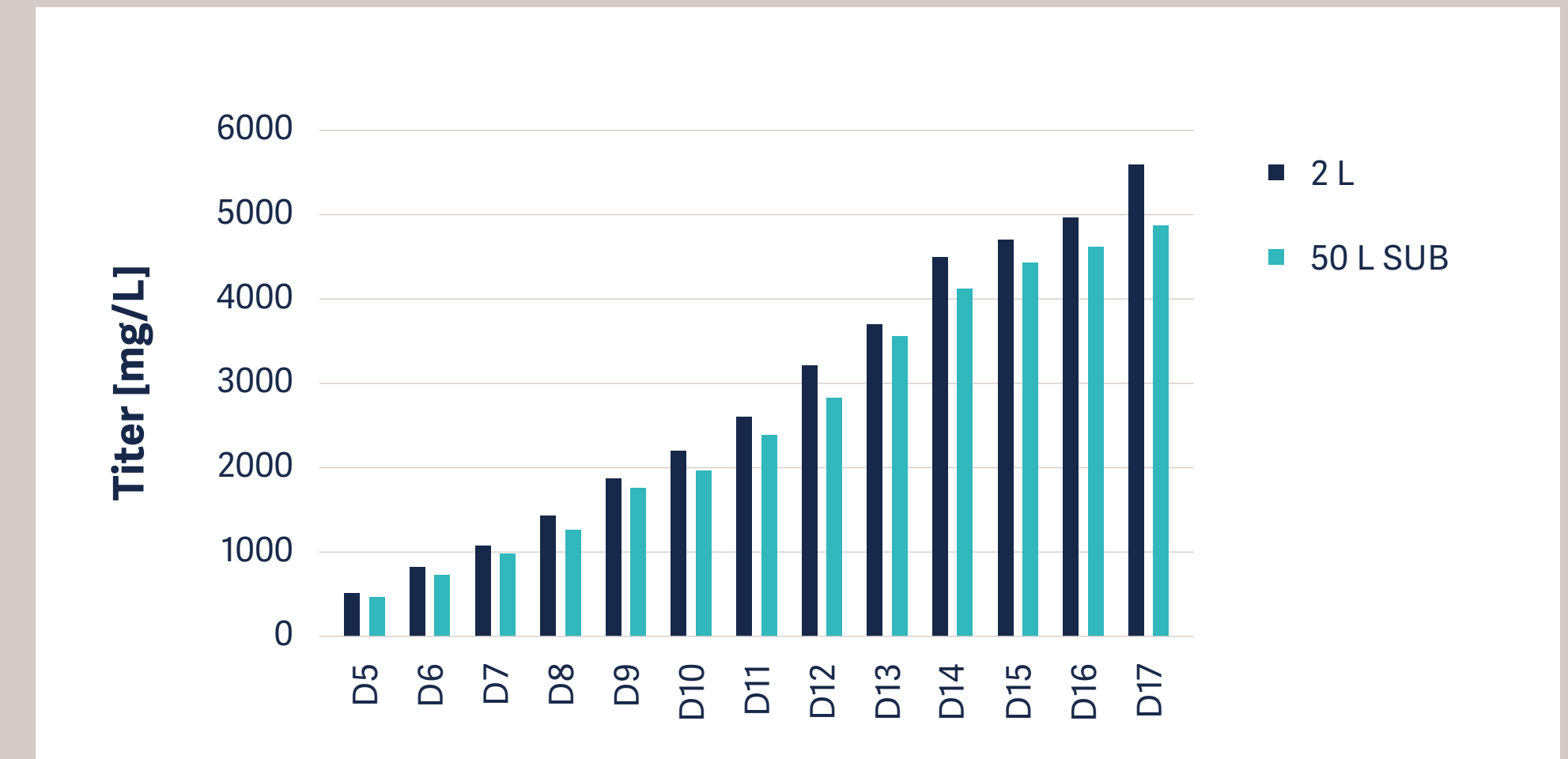
With the SUPR, you can be confident in achieving reliable, quality results at any scale – from research to production.

Studies with the SUPR confirm:*

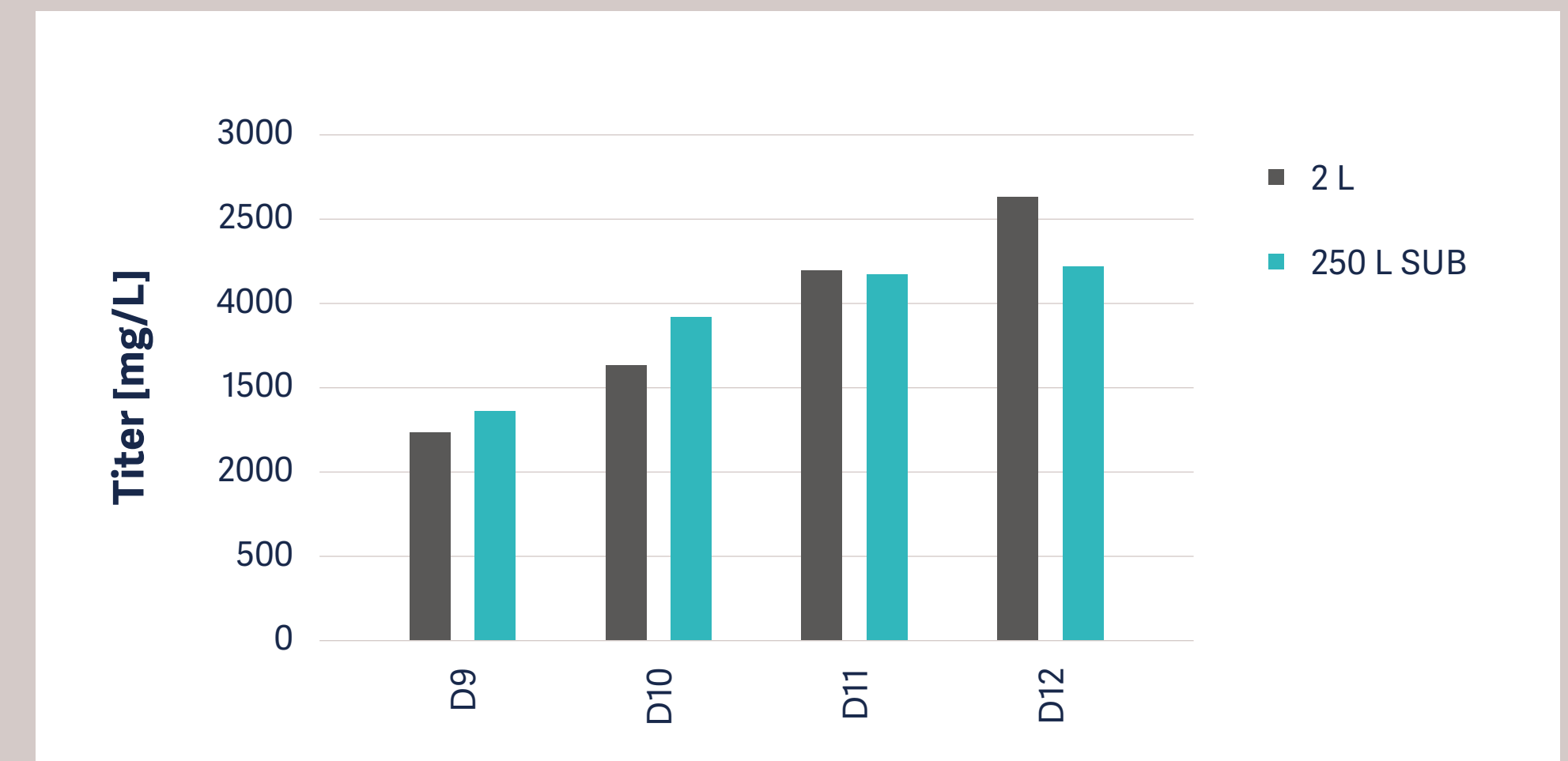
- Cell growth patterns are very similar at all scales: 1 L Applikon Bio, 50 L SUPR, and 250 L SUPR
- Metabolite profiles (glutamine, glutamate, glucose, lactate, ammonium) behaved the same at all scales
- All scales showed similar osmolality as well as pH profiles
- Production yield profiles (mAb** concentration in mg/L over time) are comparable at all scales
- Using standard scale up criteria, both 50 L and 250 L SUPR showed data that was very comparable to 1 L Applikon Bio

*From the Aragen Case study, January 2024
**Monoclonal antibody production

Daily titer profiles*



Comparison titer profile between the 50 L SUPR and 2 L Applikon Bio



Comparison titer profile between the 250 L SUPR and 2 L Applikon Bio

Trust in **SUPR** quality



The SUPR materials are fully qualified for biological product contact per USP Class VI plastics. Each assembly is manufactured and documented under cGMP conditions – everything is under control for efficient cultivation.

- ✓ Designed in the Netherlands
- ✓ Produced in the Netherlands and USA
- ✓ Experienced bioreactor provider
- ✓ Custom projects to meet customer demands
- ✓ GMP documentation





GETINGE

PASSION FOR LIFE

With a firm belief that every person and community should have access to the best possible care, Getinge provides hospitals and life science institutions with products and solutions aiming to improve clinical results and optimize workflows. The offering includes products and solutions for intensive care, cardiovascular procedures, operating rooms, sterile reprocessing and life science. Getinge employs over 10,000 people worldwide and the products are sold in more than 135 countries.

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