

SUPR simple

Introducing the SUPR – our intuitive **S**ingle-**U**se **P**roduction **R**eactor system built on proven Applikon design that helps you simplify your bioprocesses and speed up development.



SUPR design

The SUPR is part of our comprehensive bioprocessing portfolio that takes you all the way from research to production. With a dished bottom, top centered impeller, 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 SUPR cultivation container arrives sterilized, assembled, and ready to use. The innovative click-and-go bag loading system of the SUPR holder together with the intuitive tube management system enables easy installation. Getting started is as simple as that.



SUPR scalable

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

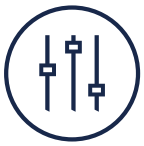
3 L

15 L

50 L

250 L

1000 L



SUPR control



New design Pro-Control

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 or 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.

The SUPR system consists of four core components for cultivation: the SUPR C³ (cell cultivation container), the SUPR holder, the temperature control unit, and the controller. The C³ bioreactor contains an impeller, sparger, overlay gas inlet, addition ports, single-use sensors, temperature sensor port, sampling port and a harvest drain.

The SUPR C³ 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.

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



No risk of cross-contamination between products



Click-and-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