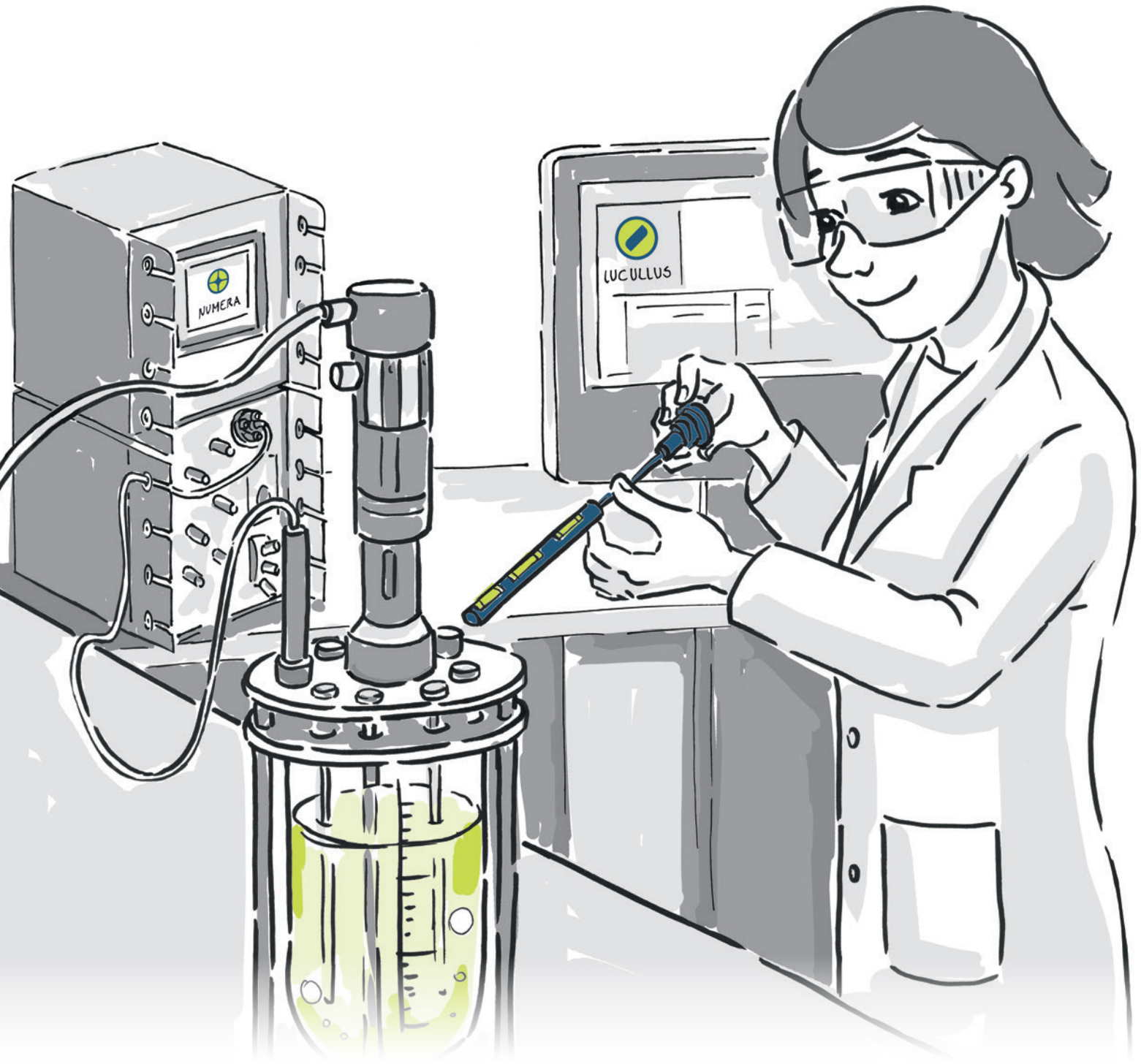
sephara

New Membrane for In-situ Filtration



Automated Sampling & Perfusion at the Benchtop Scale

Multi-use probe products for long-term filtration preventing unspecific adsorption, fouling or clogging.

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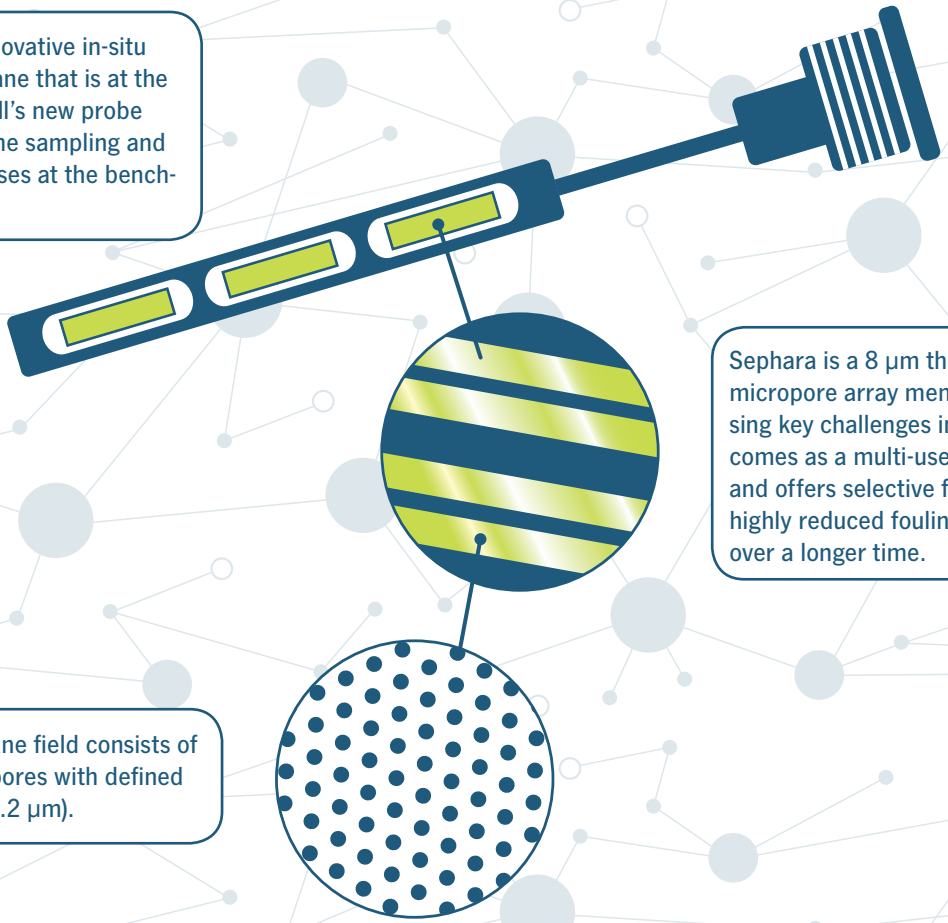
New Membrane for In-situ Filtration

SEPHARA MEMBRANE TECHNOLOGY

At the Heart of New In-situ Filtration-based Sampling and Perfusion Probes.

Sephara is an innovative in-situ filtration membrane that is at the core of Securecell's new probe products for online sampling and perfusion processes at the bench-top scale.



Sephara is a 8 µm thin Silicon micropore array membrane addressing key challenges in filtration. It comes as a multi-use membrane and offers selective filtration at highly reduced fouling and clogging over a longer time.

Each membrane field consists of high density pores with defined sizes (0.2 to 2.2 µm).

PRE-FILTRATION / FILTRATION DEVICE AS PART OF THE NUMERA SYSTEM, SECURECELL'S AUTOMATED SAMPLING AND SAMPLE PROCESSING-INSTRUMENT OR AS A STANDALONE DEVICE

Probes are available as multi-use products for insertion in PG13.5 ports and in several immersion depths (120, 150, 225, 325, and 425 mm).
The Sephara membrane based probe harboring one filtration element is perfectly suited for reliable long-term sampling at high frequencies. Due to stable in-situ filtration rates of 0.5 -1.0 ml/min, this sampling probe is the preferred choice for online process monitoring with sampling amounts of up to 50 ml/d.

IN-SITU PERFUSION AT THE BENCHTOP SCALE

The Sephara membrane based probe harboring three membrane elements is tailored for perfusion applications.
The perfusion probe with an in-situ filtration rate of up to 3 ml/min is tailored for settings using 0.25 – 2.0 l bioreactors and for runs lasting up to three weeks. It allows for continuous in-situ perfusion-based process development and manufacturing. It eliminates the need for attaching ancillary equipment such as external hollow fiber devices.

Request a live demo and more information:

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