

Automated Sampling & Analytics

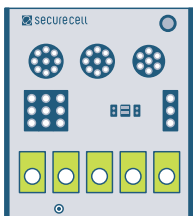
Close the loop with an advanced set-up!



CLOSE THE LOOP

The combination of the automated sampling system, Numera®, and the Process Information Management System, Lucullus®, enables the automation of the whole workflow covering sampling, measurement, process monitoring and control.

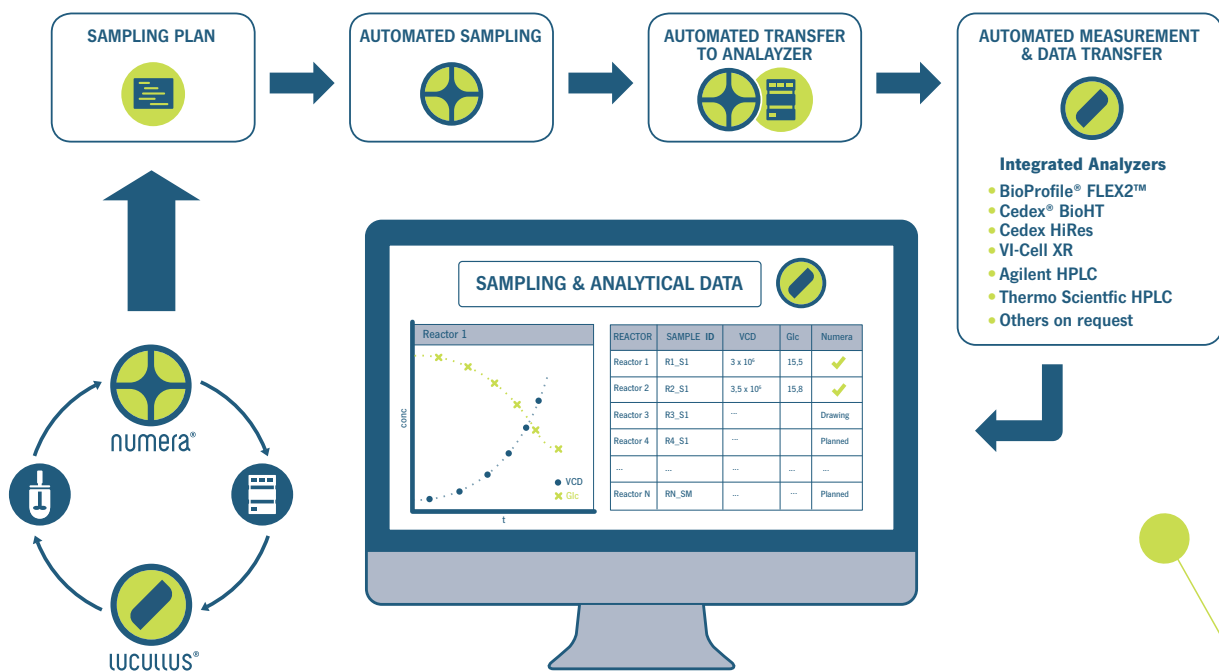
INTEGRATION OF ANALYZERS



The **Routing Module**, a novel core part of Numera®, enables the integration of various analyzers and adds extra flexibility. Numera integrates up to 16 bioreactors or downstream devices, 4 different third-party analyzers and an HPLC. It allows fast and direct transfer of biomass-containing or cell-free samples to analytical devices or to the autosampler in order to be stored. For each sample and analyzer, the processing steps within Numera® can be individually customized.

THE SMART SAMPLING WORKFLOW

In combination with Lucullus, all activities such as sampling, data alignment and analytics are optimized. By using predefined and customized sampling schedules, Lucullus coordinates the interaction between bioreactor, Numera® and analytical devices. All analytical data is automatically fed back into Lucullus® and assigned to the correct process and time. Hence, Numera® and Lucullus® enable monitoring and control of process parameters (e.g. CPPs) without manual interaction.



NUMERA® & LUCULLUS®: A UNIQUE ALL-IN-ONE SOLUTION

- High-frequency and low volume sampling
- High-precision sample preparation
- On-line measurements with various analyzers
- Automated data import from analyzers
- Real-time process evaluation
- Feedback control-loops

Request a visit to one of our demolabs and more information:

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