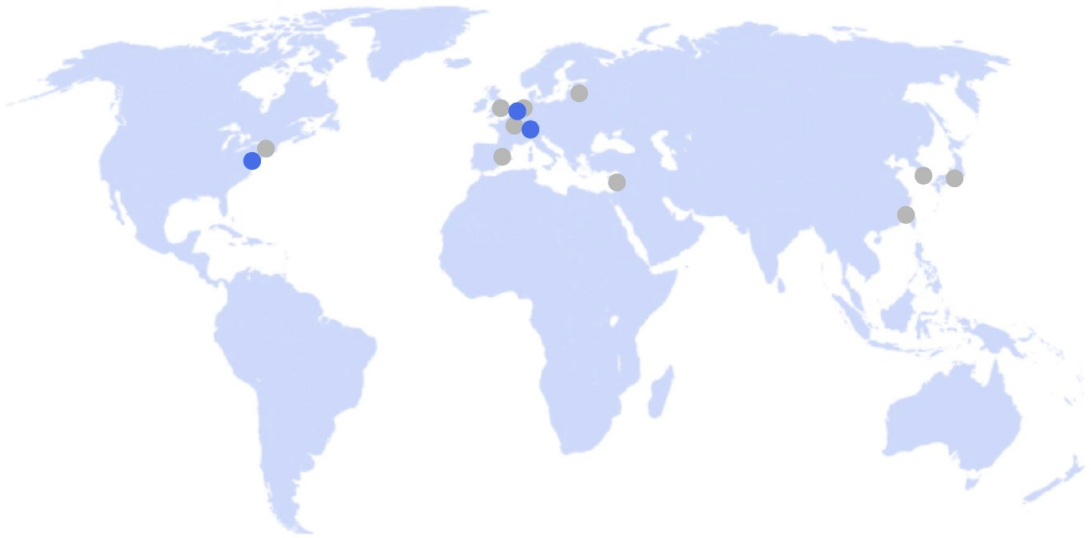


Securecell

The Full Bioprocess Integrator

Revolutionizing the Future of Bioprocessing with Automation and Digitalization

Headquarters and Branches



SWITZERLAND
Securecell AG

In der Luberzen 29
CH – 8902 Urdorf
+41 44 732 91 00
contact@securecell.ch

UNITED STATES
Securecell LLC

2125 Center Ave., Suite 507
USA – Fort Lee, NJ 07024
+1 201 429 9372
contact.usa@securecell.ch

NETHERLANDS
Securecell BV

Javastraat 12
NL – 3016 CE Rotterdam
+28 01 429 93 72
contact.nl@securecell.ch

Distributors and Sales Partners

ABLE Biott	Japan
ALIT Life Science Co. Ltd	China
Biotecha Latvia SIA	Baltic States
BPES Ltd	UK
Chayon Technologies ltd	South Korea
Danyel Biotech ltd	Israel
Getinge Applikon AB	Global
Holm & Halby AS	Denmark
Pro Analytics LLC	USA
System-c bioprocess	France

Distributors and Sales Partners

Stobbe Pharma GmbH	Single Use Technologies
DataHow AG	Data Analytics and Modeling

About Securecell



1992

INCORPORATION

ETH spin-off (Biospectra)

2010 transition to Securecell AG

+30 years of industry experience



4

LOCATIONS

HQ in Zurich (CH)

Subsidiaries in New Jersey (USA), Leiden (NL), and Lisbon (PT)



95 +

EMPLOYEES

24 Nationalities



5

CORE COMPETENCES

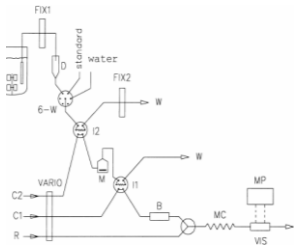
Bioprocess Automation and Digitalization

Mechanical and Software Engineering

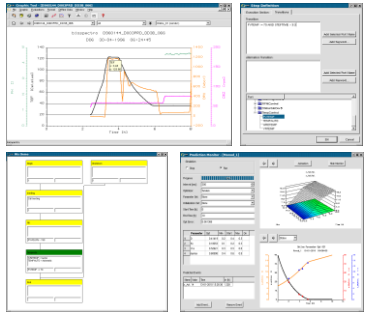
Medical Device Development

History

1993 - 1998









1989 - 1992

Experiments and studies with Flow Injection Analysis (FIA) at ETH Zürich

1992

Carlo Andretta's PhD studies: General concept for organizing upstream bioprocesses

1993 - 1995

Development of Lucullus Process Information Management System

1995 - 1998

Development and first installations of on-line HPLC systems in biopharma industry

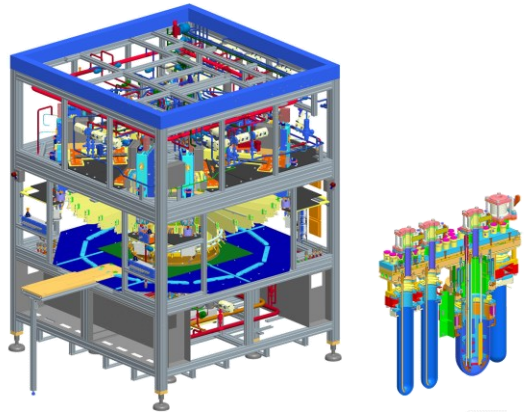
History

1999 – 2009









1999 - 2013

Benchtop bioreactor controller “Advanced Biocontrol System”

2001 - 2015

Piloting and GMP production control system “Industrial Biocontrol System”

2003 - 2008

Parallel bioprocess development system “Clone Explorer”

2007 - 2009

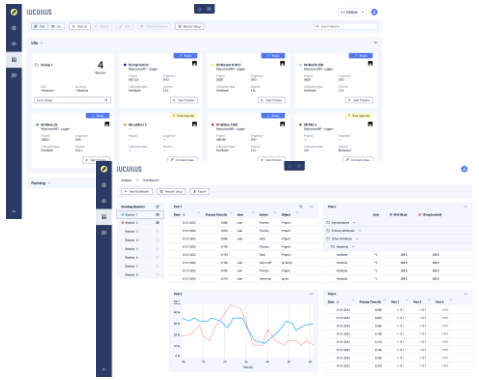
Fully automated parallel bioprocess development system “Clone Screener”

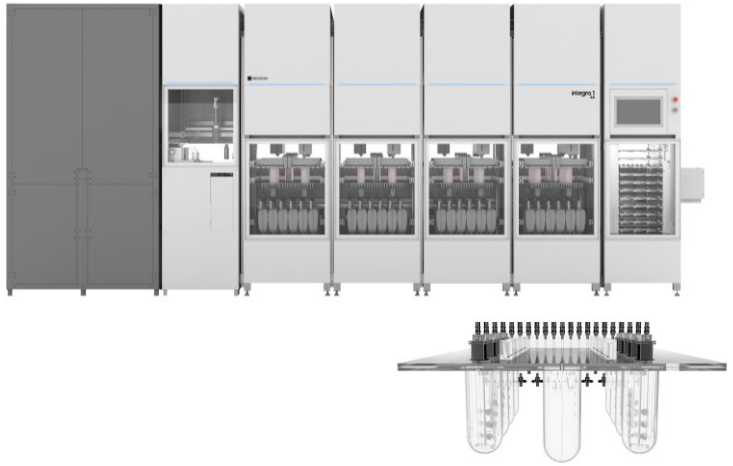
History

2010 – today









2010

Incorporation of Securecell AG; start of the MedTech business unit

2014 - 2018

Development and first installations of Numera® automated sampling system

2010 - today

Further Development of Lucullus® (multi reactor interface, REST API, drivers, ...)

2019 - today

Development of Integra1, a fully integrated, end-to-end bioprocessing platform

Excerpt of our customer / partner base

PHARMA, BIOTECH, DIAGNOSTICS

ALEXION
MSD
CELONIC
NOVARTIS
Fraunhofer
novavax
Genentech
Pfizer
GENOME & Co
patheon
GSK
REGENERON
IDT
SANDOZ
ISOMERASE THERAPEUTICS
sanofi
Johnson & Johnson
Takeda
MACROGENICS®
teva
MERCK
zoetis

ACADEMIA, TECH TRANSFER

ABPDU
McGill
CATAPULT Cell and Gene Therapy
nibrt
DTU Technical University of Denmark
NIH National Institute of Mental Health
ETH Zürich
NTNU
FDA
Northeastern University
HZI Helmholtz Zentrum für Infektionsforschung
TU Delft
JÜLICH Forschungszentrum
TU WIEN Technische Universität Wien
MIT Massachusetts Institute of Technology
zhaw

FOOD AND AGRICULTURE

Agroscope
CHR. HANSEN
amyris
DSM
Biosyntia
Givaudan
Carlsberg

TECHNOLOGY

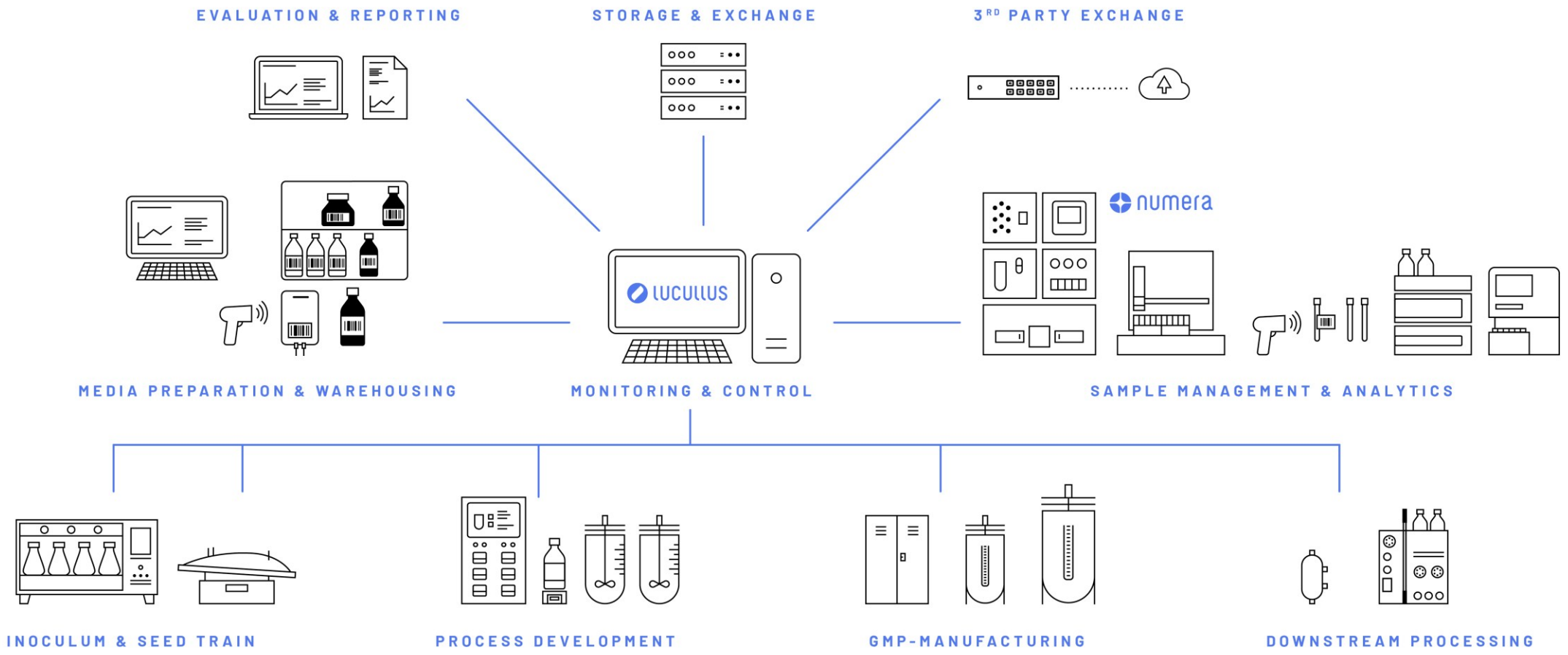
TABLE Biott
GETINGE
Agilent
Roche Diagnostics
bionet
SOLARIS. BIOTECH By Donaldson
ChromaTan
TECNIC
DATAHOW
ThermoFisher SCIENTIFIC
DISTEK
YOKOGAWA
Frings



LUCULLUS

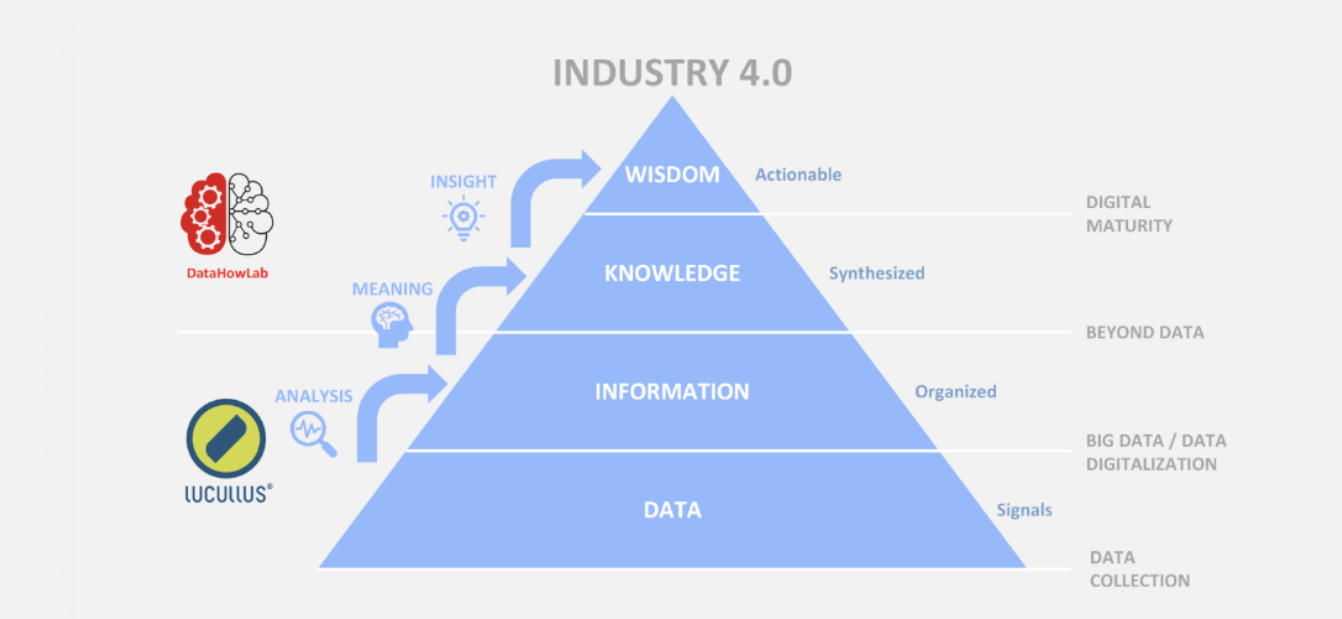
Comprehensive Software Solution for Bioprocess Digitalization

Bioprocess Automation and Digitalization



securecell + DataHow

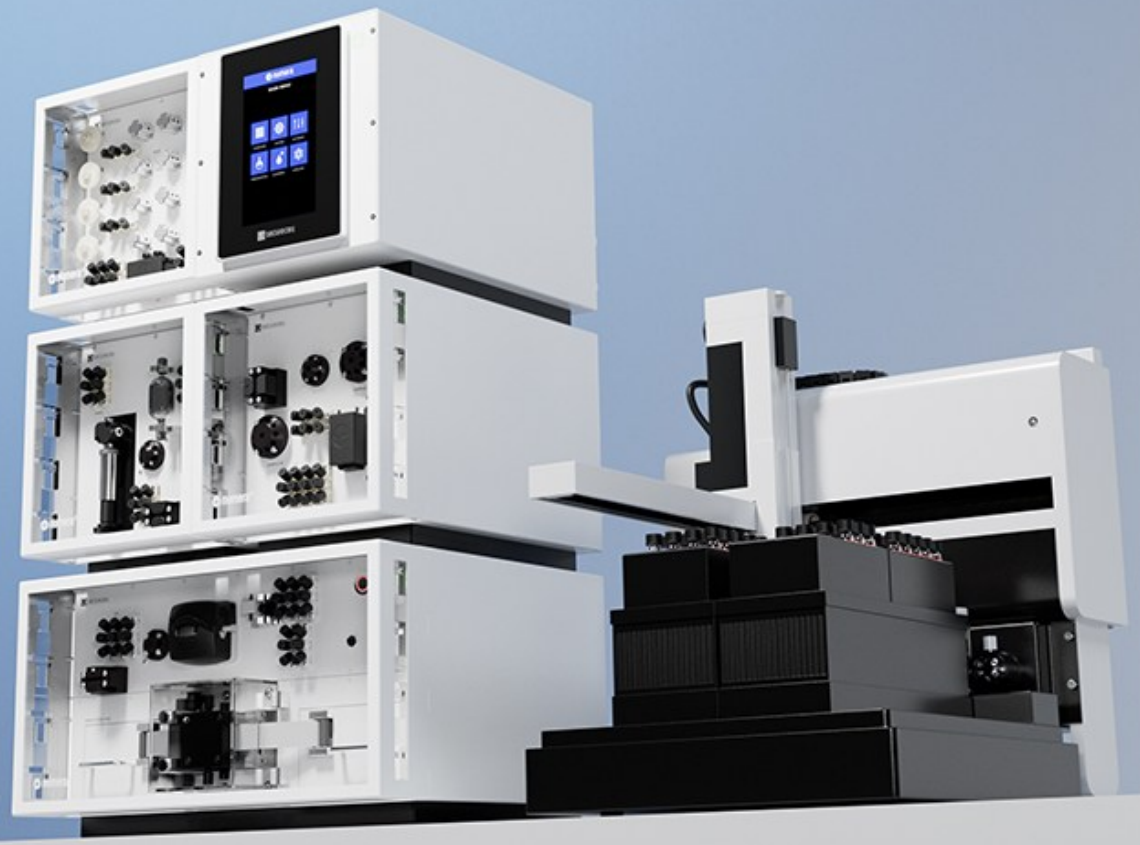
Accelerate bioprocess development through harmonized data integration, overarching process automation, and machine learning-based models.





Advanced Bioprocess Sampling Solution

User-friendly modularity, fully integrated lab automation



Numera® capabilities

Key Features

- Automated sampling 24/7 from up to 16 vessels
- Minimum sampling volume 2.7 mL
- Sample Processing: dilution and filtration
- Dilution Accuracy and Precision ≥ 98%
- Unique tape filtration for cell removal
- Temperature-controlled Sample Storage
- Sample transfer to up to 6 PAT analyzers



Numera® V3

Customizable Configuration & Easy Scale-Up



Sample Collection and Storage

Automatically collect samples from connected bioreactors and preserve them at 4–8°C to ensure sample integrity for subsequent analysis.



Automated Sample Processing

Automate sample processing with precise dilution (up to 1:100) and advanced filtration, enabling reliable collection of cell-free samples.



Integrated Online Analytics

Achieve real-time insights through automated, parallel analysis of your samples with integrated cell counters, biochemical analyzers, and HPLC systems.



High-Density Sample Processing

Complete your setup with the centrifugation module, delivering cell-free samples from high-density cultures —optimally prepared for LC-MS analysis.

Numera® V3

Supported Analytical Devices

CELL CULTURE ANALYZER



Cedex® Bio HT Analyzer
Roche CustomBiotech



BioProfile® FLEX2
Nova Biomedical

CELL COUNTER



Vi-CELL BLU
Beckman Coulter
Coming soon



XcytoMatic® 30
ChemoMetec

LC SYSTEMS



1200 Infinity Series
Agilent



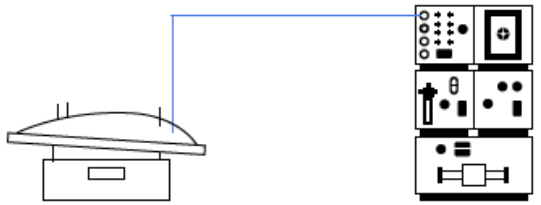
Vanquish™
Thermo Fisher

Numera V3

Integration

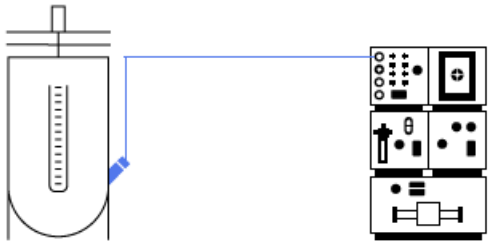
Single Use Bioreactors

+ Sample lines



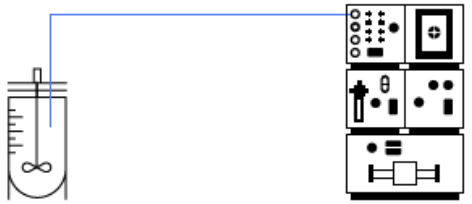
Stainless Steel Reactors

+ Sample lines
+ Sampling port



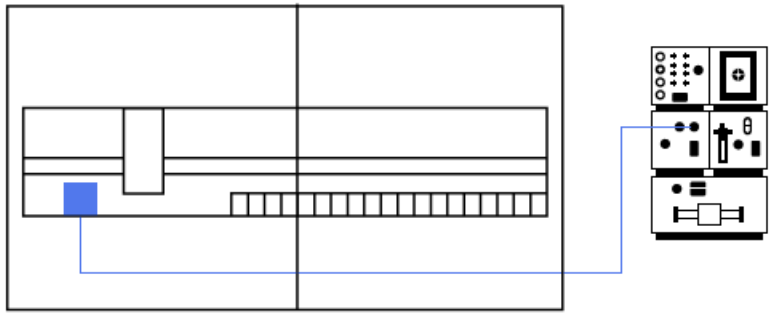
Benchtop Reactors

+ Sample lines
+ Dip tube
+ Adapters



Ambr®250 High Throughput System*

+ Ambr® Interface
+ Sample lines



*for more details contact our sales team

Ambr® is a registered trademark of "The Automation Partnership (Cambridge) Limited"



lucullus + numera



Work in perfect unison

Numera® & Lucullus® Work in Perfect Unison

Numera® seamlessly integrates into bioprocessing environments with Lucullus®

Lucullus®

- **Process planning including sample management**
- **User interface to Numera®**
- **Triggers the sampling event**
- **Triggers the sample analysis**
- **Collects sample data (what, when) including the analytical results in real-time**
- **Collects all process data in real-time**
- **Visualizes all collected data**
- **Performs feedback control (e.g., feeding based on analytical sample results)**
- **Allows process planning including sample management**

