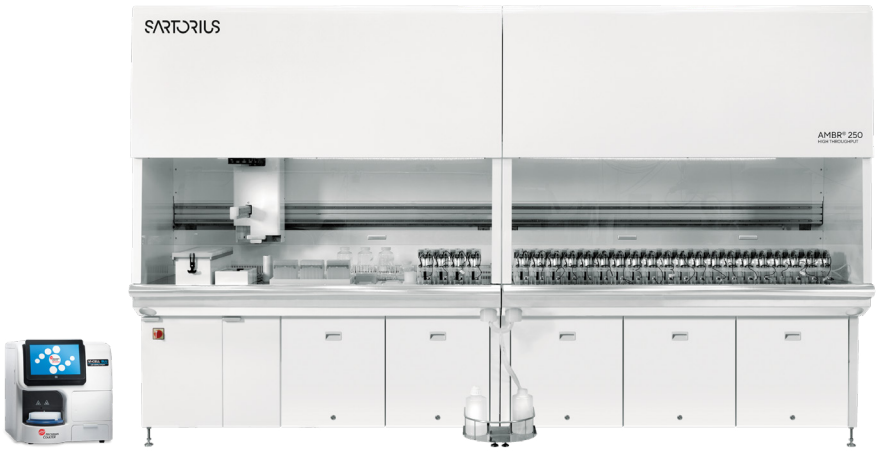
Precision in Every Decision:

Unlock Advanced Cell Culture Analysis with Automation

Integrating the Vi-CELL BLU Cell Viability Analyzer with Sartorius Ambr® 250 High Throughput Bioreactor System



ACCELERATING *answers*

BECKMAN COULTER Life Sciences

Introducing a Powerful, Seamless Solution for Cell Culture Monitoring & Process Optimization

With updated software, the Vi-CELL BLU analyzer can now be seamlessly integrated with the Sartorius Ambr® 250 High Throughput automated bioreactor. This integration:

- Enables walk-away, unattended operation and multiple cell counts 24-hours/day (e.g., overnight and weekends)
- Improves precision and consistency of results compared to manual sample transfers
- Controls actions that can be calculated/executed based on cell count (e.g., feed additions)
- Standardizes sampling protocols between experiments, labs and sites to optimize accuracy and data reproducibility

What's more, the Vi-CELL BLU analyzer can still be used in standalone mode via its 24-position carousel or 96-well plates.

About the Vi-CELL BLU Cell Viability Analyzer

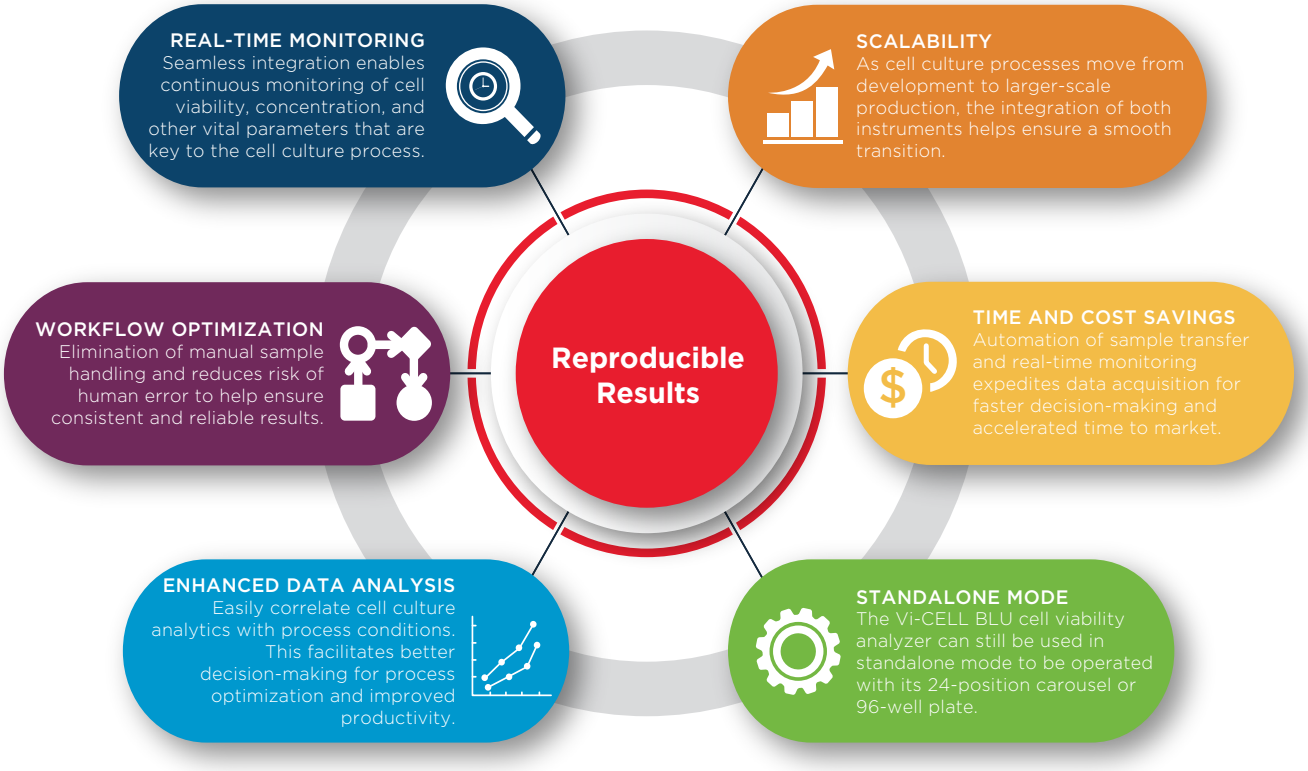
This advanced automated cell viability analyzer is designed to simplify and accelerate cell culture analysis. With its cutting-edge imaging technology and intuitive software, it provides accurate and reliable cell viability and concentration measurements in a matter of minutes.

About the Ambr® 250 High Throughput Automated Bioreactor

This system enables parallel processing of multiple cell culture experiments. It optimizes cell culture process development by mimicking the conditions of larger-scale bioreactors while dramatically reducing required volumes—and time.

Unlock Even More Capabilities of your Vi-CELL BLU Analyzer

Integrating Vi-CELL BLU analyzer and Ambr® 250 High Throughput systems leverages the strengths of both instruments to automate cell culture analysis. By combining these two technologies, researchers and bioprocess engineers can unlock benefits such as:



Linking these two robust systems also expands the potential for a wide array of applications, including:

- BIOPHARMACEUTICAL DEVELOPMENT: Accelerate development of biopharma processes by optimizing cell culture conditions and ensuring high cell viability and productivity.
- CELL LINE DEVELOPMENT: Screen and select high-performing cell lines more efficiently and gain real-time insights into cell growth, viability and productivity to identify the most promising candidates.
- PROCESS OPTIMIZATION: Achieve better process control and optimization by leveraging real-time monitoring capabilities of these two instruments. You'll see the impact of process parameters on cell viability, concentration and product quality, which can help improve the effectiveness of your processes.
- SCALE-UP STRATEGIES: Seamlessly transition from small-scale experiments with the Ambr® 250 High Throughput system to larger-scale bioreactors by leveraging insights gained with the Vi-CELL BLU analyzer. This enables a smooth scale-up process and the maintenance of process performance at different production scales.

Empowering Precision With Reliable And Efficient Cell Culture Monitoring

Experience high comparability of results with the Vi-CELL BLU cell viability analyzer, showcasing an impressive range of +/- 6% for total cell density and only +/-1% for viability measurement between automated and offline (stand-alone) sampling methods. The growth curves of all 12 bioreactors demonstrate similar profiles for both operational methods.

With the analyzer seamless switch between automation and standalone mode, you can conduct regular performance checks effortlessly using our Quality Control products.

By automating the monitoring of key cell culture parameters using the integrated Vi-CELL BLU analyzer and Sartorius Ambr® 250 High Throughput systems, you can significantly reduce manual lab work and increase the speed at which critical cell culture parameters are analyzed. The automation ensures that data is consistently accurate and reproducible, providing you with the confidence needed to make reliable decisions during the cell line production process.

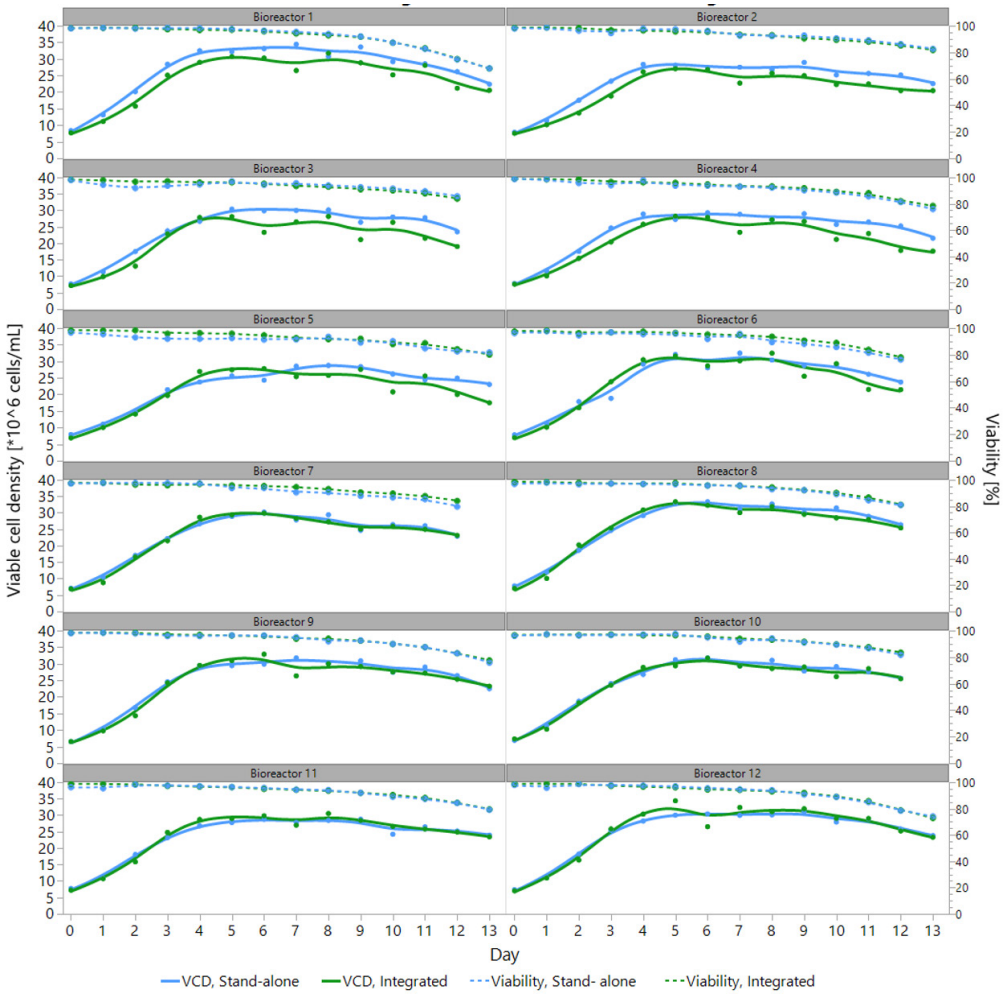


Figure 1. Comparison of integrated (green) and standalone (blue) values on the Vi-CELL BLU cell viability analyzer. The Viable Cell Density (solid line) and viability (dotted line) are shown during the 12- or 13-day cultivation.

Ordering Information

For current users of the Vi-CELL BLU Analyzer:

Please use the part numbers below to add the Ambr Integration to your existing Vi-CELL BLU instrument.

Part number	Product
D09687	Sartorius Ambr Automation Integration Kit - Existing Vi-CELL BLU

For NEW users of the Vi-CELL BLU Analyzer:

Part number	Product
D09686	Sartorius Ambr Automation Integration Kit - New Vi-CELL BLU

Beckman Connect

For more information

visit beckman.com/cell-counters-and-analyzers/vi-cell-blu/ambrconnector

For Beckman Coulter's worldwide office locations and phone numbers, please visit "Contact Us" at **beckman.com**

2024-GBL-EN-101813-v1

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