



# MicroScan MICROBIOLOGY SYSTEMS » POWERED BY LabPro

Make critical decisions with confidence: LabPro Information Manager helps deliver more efficient, accurate test results.



» Move healthcare forward.



## Make accurate results actionable

Optimal patient care and hospital safety begin with accurate, actionable and timely information, and is the foundation of the LabPro Information Manager. This automated laboratory software package alerts your team when results require immediate intervention within the laboratory.

The LabPro information management suite supports standardized and consolidated testing regimens, accommodates versatile result reporting requirements and expands your ability to identify emerging bacterial resistance through the following tools:

- › LabPro with Alert<sub>EX</sub>\*—Automates detection of atypical results and then guides staff regarding the most appropriate action steps, based upon predefined conditions and customized institutional procedures
- › LabPro Connect—Provides LabPro access from desktop networked workstations to improve efficiency and effective time management
- › LabPro-MBT—Combines MicroScan antimicrobial susceptibility testing (AST) results with Bruker MALDI Biotyper® rapid identification (ID) results to streamline workflow processes and improve clinical impact<sup>1,2,3</sup>

\* LabPro with Alert<sub>EX</sub> is included with all MicroScan instrument systems but it can also be used as a standalone system for users who process panels manually.

## Enhance efficiency with intelligent automation

The LabPro information management software suite works in conjunction with MicroScan instruments. However, users can also operate it as a standalone tool for manual panel-reading applications. Either way, LabPro Information Manager retrieves instrument or input data and provides ID, minimal inhibitory concentration (MIC) and interpretive guidance to ensure accurate results through streamlined workflow processes.

LabPro Information Manager provides end-to-end data management capabilities using a bidirectional LIS interface to receive ID and AST orders as well as transmit test results either on-demand or automatically. In addition to MicroScan panel information, the system manages and consolidates a review of other test information—such as Kirby Bauer antibiotic disk results and MALDI identification—for epidemiology or stewardship purposes.

To help meet ever-increasing demands on your time, LabPro Information Manager streamlines workflow processes at all levels of microbiology services. By providing consistent screen elements with processing tips and fly-over reminders throughout all applications, this powerful tool enhances ID/AST workflow efficiency. Additionally, its flexible “rules engine” allows you to tailor the system to address changing institution needs or customize formularies for outside clients, resident physicians and hospital services.

The comprehensive quality control management feature enables you to create customized test batteries so weekly QC requests can be ordered with a single mouse-click. You can also monitor QC data, and document corrective actions within LabPro Information Manager to assist with IQCP activities. Detailed as well as summary reports will help satisfy review or inspection requirements.

Additional LabPro modules expand capabilities to meet the increasing data-driven demands of today’s healthcare environment while our optional remote diagnostic capabilities enable efficient problem resolution and ensure your operations run smoothly.



**LabPro Alert<sub>EX</sub>**  
Auto-alert notifications when isolate results require attention



**LabPro Connect**  
Access ID/AST data from single or multiple systems at any workstation



**LabPro-MBT**  
Combine AST with Bruker MALDI Biotyper® rapid ID results for greater impact

## INTEGRATED LabPro EPIDEMIOLOGY

### Percent Interpretative Report

- › Include %S, %I and/or %R
- › Add additional segmentation, if desired
- › Exclude duplicate isolates to align with CLSI M39 recommendations
- › Include off-line tests and antibiotics suppressed from normal reporting
- › Export data to create custom antibiograms for clinical use

### Cumulative % Inhibited by Drug (MIC 90) Report

- › Track subtle changes in antimicrobial resistance patterns
- › Generate reports using customized segmentation

### Bacterial Incidence Report

- › Segment data to support Infection Control initiatives and Outreach value-added services
- › Pinpoint areas of a facility that may be experiencing a high incidence of a particular pathogen
- › Monitor outbreaks and resulting treatments

### Query Summary Report

- › Provide specimen list using epidemiology or patient segmentation criteria
- › Use either a system-defined or customized report format
- › Store customized queries for future use



### LabPro with Alert<sub>EX</sub>

LabPro with Alert<sub>EX</sub> provides the right combination of precision and flexibility for the automated detection of atypical results. Programmed with an extensive database of predefined rules recommended by the Clinical and Laboratory Standards Institute (CLSI), the European Committee on Antimicrobial Susceptibility Testing (EUCAST) and key microbiology opinion leaders, Alert<sub>EX</sub> also:

- › Permits complete customization—create, edit, deactivate or reactivate any alert at any time to align with changing institutional, regional or other clinical needs
- › Provides guidance regarding the most appropriate actions based on customized institution procedures
- › Ensures reporting of intrinsic resistance
- › Enables customization to automatically modify organism identifications for more focused segmentation and respond immediately to changing CLSI interpretive breakpoint recommendations

LabPro software has built-in epidemiology capabilities for report generation and analysis of institution and outreach susceptibility patterns and trends.

“LabPro Alert<sub>EX</sub> is fantastic. Keeping up with ongoing changes to what is reportable for antibiotic rules is difficult. My laboratory staff and I rely on the LabPro Alert<sub>EX</sub> system to do this for us. I don’t know how we would work without it.”

**Jennifer Blakeney, M.T. (ASCP),**  
Lead Microbiology/Immunology Technologist  
Beebe Medical Center Laboratory

“The learning curve was absolutely miniscule because it is such a user-friendly product. It is something you can just get right in and use. It’s fabulous. It saves us so much time and frustration and we’re much more efficient. I feel more organized in my work.”

Kim Pannke, M.T. (ASCP), John Muir Medical Center Laboratory



View status of up to 18 WalkAway instruments on one screen

## LabPro Connect

LabPro Connect improves laboratory efficiency by streamlining workflow processes. Equally important, it makes essential patient care and hospital safety information quickly accessible.

### Specifically, LabPro Connect enables:

- › Workstation access to ID/AST data on the WalkAway instrument
- › Unrestricted availability of LabPro data, even when the WalkAway computer is being used for panel loading/unloading or maintenance activities
- › Simultaneous access to the LabPro system by multiple users
- › Connectivity for up to 18 WalkAway instruments and 25 LabPro and bench workstation computers

- › Data consolidation across multiple MicroScan systems to efficiently create epidemiology and other management reports
- › Supervisors to run reports without interrupting normal workflow
- › Fewer required LIS connections when multiple MicroScan systems are in use

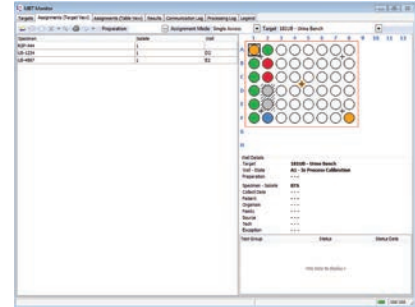
For added convenience, LabPro Connect comes with two operating options: Open System and Closed System. With Open System installed on a Local Area Network (LAN), information can be managed from any connected workstation in real time. The Closed System provides the same data consolidation advantages without LAN integration.

“No more shuffling through paper. (I’m) able to view WalkAway Monitor at bench and give anyone who calls real-time results.”

Karen Hitterman, MT (ASCP), Loyola University Laboratory

## LabPro-MBT

Accurate antimicrobial susceptibility test results form the foundation of antibiogram data, which clinicians rely on for patient management. LabPro-MBT seamlessly combines MicroScan AST results with Bruker MALDI Biotyper® rapid ID data to provide accurate, comprehensive results earlier, an important capability for better patient outcomes.



### By implementing LabPro-MBT, technologists can:

- › Minimize training and implementation time by using the familiar LabPro platform
- › Apply appropriate therapies for MALDI-TOF\*\* identifications automatically when combined with MicroScan MIC panels
- › Apply customized Alert<sub>EX</sub> system rules to final identifications
- › Eliminate the need for an additional LIS connection by managing all orders and results through the existing LabPro connection

For even greater efficiencies, integrate LabPro-MBT with LabPro Connect to eliminate unnecessary movement and streamline the MALDI-TOF workflow process. The combined package enables target assignment, results management and LIS transmission at each workstation, where isolate work-up occurs.

\*\* Matrix-Assisted Laser Desorption Ionization Time-of-Flight (MALDI-TOF)

## LabPro remote diagnostics

Thanks to the remote diagnostic feature, you can enjoy real-time support right from your LabPro computer.

Simply give Beckman Coulter service representatives remote access to exchange valuable, real-time troubleshooting information or facilitate training guidance via desktop-sharing of your LabPro computer.

Through this customer support window, Beckman Coulter may quickly determine whether an issue can be resolved over the phone or if a service representative must be dispatched.

Remote diagnostics is a value-added feature that ensures your operations get back on track in the shortest period of time.

“...individuals knowledgeable about common scenarios in which organism identification alone can lead to adjustments in antibiotic therapy can develop guidelines for when MALDI-TOF can guide appropriate antibiotic selection.”

Tamma, PD, Kennard, T, et al. 2013. Can MALDI-TOF Enhance Antimicrobial Stewardship Efforts in the Acute Care Setting? *Inf Con & Hosp Epi*. Vol 34, No 9.

### Remote diagnostics capabilities include:

- › Technical service support access through remote dial-in capabilities
- › Electronic delivery of antivirus and operating system updates

### You know LabPro remote diagnostics is secure because:

- › All initiated communications come from the customer's system
- › Customer acknowledgement is required to establish a remote desktop session
- › Only authorized users can access the portal via individual login and password
- › All remote access activity is audited for traceability
- › Security is employed at the system, network and enterprise layers following TCP/IP and HTTPS standards
- › Connectivity standards employ the same type of internet security used for online banking
- › Encryption and authentication are employed to ensure data is both secure and from a trusted source, respectively

### Technical specifications

- › Internet access minimum 100 Mbps
- › Patented, Firewall-Friendly™ communications
- › 2048-bit key encryption and up to 256-bit AES content encryption

### Enhance patient care with fast, accurate, easy-to-use technology

Beckman Coulter's advanced software programs—LabPro with Alert<sub>EX</sub>, LabPro Connect and LabPro-MBT—work collectively to improve your ability to enhance patient care while remote diagnostics capabilities ensure your systems function at their best.

## KEY FEATURE SUMMARY

### Beckman Coulter's LabPro Information Manager:

- › Provides crucial alerts and guidance regarding atypical results in real time
- › Supports unique laboratory requirements through flexible, adaptable software reporting and notification tools
- › Improves laboratory efficiency by streamlining workflow and making patient care information easily accessible
- › Eliminates time-consuming training requirements due to the easy-to-learn and easy-to-use graphical user interface



## LEAN PRINCIPLES, ONGOING SUPPORT

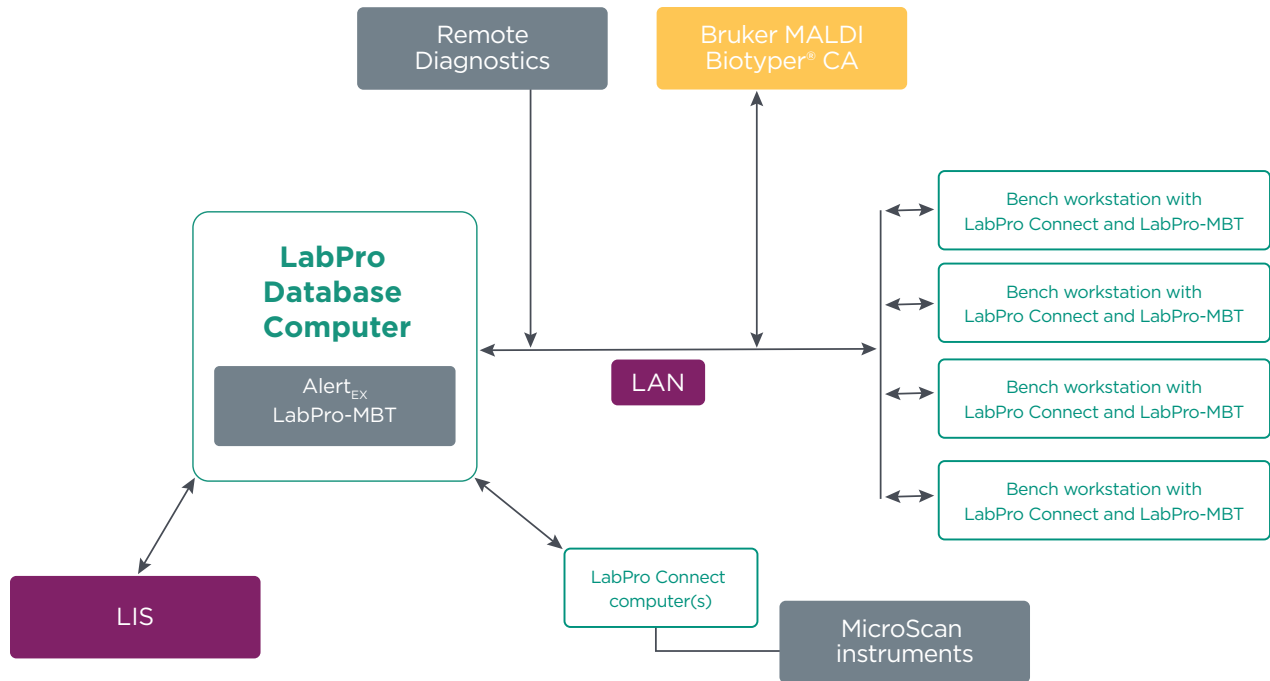
LabPro information management tools were designed to simplify workflow processes, minimize user interaction with instruments and enhance the speed as well as accuracy of test results reporting. By eliminating waste—ranging from informatics to processes to kinesiology—LabPro Information Manager contributes to Lean laboratory environments.

### Beyond supporting Lean principles, value-added services include:

- › Beckman Coulter implementation experts help you customize settings for use within your specific laboratory and support your team so they can optimize software features for maximum efficiency
- › Customer service teams are available to answer questions and assist with further customizations, as needs evolve
- › Documented proficiency and CEU credits are offered through Internet-based training courses for comprehensive, well-structured learning experiences



## Efficient connectivity and data management



### References

1. Huang, AM et al. 2013. Impact of Rapid Organism Identification via Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Combined With Antimicrobial Stewardship Team Intervention in Adult Patients With Bacteremia and Candidemia. *CID*. 57:1237-45.
2. Tamma, PD et al. Can Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry (MALDI-TOF) Enhance Antimicrobial Stewardship Efforts in the Acute Care Setting? *Infect Control Hosp Epidemiol*. 34(9):990-5.
3. Wenzler, E et al. 2016. Impact of rapid identification of *Acinetobacter baumannii* via matrix-assisted laser desorption ionization time-of-flight mass spectrometry combined with antimicrobial stewardship in patients with pneumonia and/or bacteremia. *Diagn Microbiol Infect Dis*. 84(1):63-8.

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