ACCURACY MATTERS

Deliver automated antibiotic susceptibility testing (AST) and rapid identification (ID) results without sacrificing accuracy.

MicroScan Microbiology Systems
“In the first year we had the MicroScan [system], we saved over $70,000 in send-out costs alone because the MicroScan [system] could identify isolates that our previous system could not.”

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

Preventing the spread of antibiotic-resistant (AMR) bacteria within hospitals and communities requires correct identification of AMR pathogens as quickly as possible. MicroScan microbiology systems **detect emerging resistance as it occurs**, providing accurate and timely results without reliance on historical data.

Get answers right the first time:

› **Accurate drug-bug performance**
  The fewest clinically significant drug-bug limitations of any automated ID/AST system result in fewer repeat and confirmatory tests\(^1\)

› **Powerful reporting**
  MIC and susceptibility results that correlate with classical broth microdilution and disk diffusion in the most trusted way\(^2,3\)

› **Real-time alerts**
  LabPro Alert\(_{EX}\) automates detection of atypical results for quick recognition and reporting

Backed by more than 35 years of ID/AST testing experience, MicroScan microbiology systems improve workflow by minimizing the need for confirmatory retesting and providing accurate, first-time results for laboratories of every size.
ACCURATE SOLUTIONS
FOR EVERY LABORATORY

MicroScan systems
Designed to work in laboratories of every size, MicroScan microbiology instruments use a single-panel format that enables scalability. With unmatched microbiology and laboratory workflow expertise, Beckman Coulter serves as a trusted partner to deliver solutions that meet your evolving requirements.

MicroScan WalkAway plus System
- Ideal for mid- to high-capacity laboratories
- 40- and 96-panel capacity models
- Automated incubation, test interpretation and reagent control
- Conventional overnight ID/AST and/or specialty and rapid ID testing on one instrument

autoSCAN-4 System
- Ideal for small-capacity laboratories or backup testing
- Automated read of bacterial ID and susceptibility in seconds
- Testing for difficult and slow-growing species
- Automatic recording and interpretation of instrument results by computerized system

MicroScan delivers accurate emerging resistance detection for the toughest pathogens, including Vancomycin-intermediate Staphylococcus aureus (VISA), Vancomycin-resistant Staphylococcus aureus (VRSA) and Methicillin-resistant Staphylococcus aureus (MRSA).

“The MicroScan unit is an overnight testing system that is a true growth/no growth system, which gives you the most accurate results. It offers the flexibility of either a full MicroScan MIC panel or combination identification and susceptibility panel. The MicroScan [system] has been very consistent and reliable, attested by the fact that we have 10 of them.”

James Clark, M.T. (ASCP), Microbiology Manager
Alverno Clinical Laboratories
MicroScan panels

Today’s microbiology laboratories face continuous change—change in antimicrobial resistance, change in formularies and therapies, and change in the healthcare landscape. For more than 35 years, MicroScan systems have provided gold-standard bacterial identification and susceptibility products, confronting emerging resistance with speed and accuracy. Count on MicroScan systems for unmatched experience, expertise and selection.

MicroScan offers a broad choice of panel formats:
› Conventional overnight panels
› Rapid ID panels
› Specialty ID panels
› MICROSTREP plus panels
› ESβL plus panels

Fewest FDA limitations

MicroScan panels offer the fewest clinically significant FDA limitations and adhere to guidelines established by all the major microbiology standards organizations including Clinical and Laboratory Standards Institute (CLSI) and European Committee on Antimicrobial Susceptibility Testing (EUCAST).

Maximize your workflow flexibility with a choice of three panel testing options:
› ID-only
› AST-only
› ID/AST

“The rapid negative ID panels are very useful to us. We see a lot of challenging organisms with non-fermenters and these panels do an awesome job with these organisms.”

Angela Beth Prouse, M.S. M.T. (ASCP), Clinical Microbiologist, Peninsula Regional Medical Center
MAKE ACCURATE RESULTS ACTIONABLE

LabPro software suite
Enhanced data management improves laboratory efficiency by streamlining workflow and making information about patient care easily accessible. Collectively, the LabPro Information Manager, LabPro Alert<sub>EX</sub>, LabPro Connect and LabPro-MBT help standardize and consolidate testing regimens. Adaptable to unique laboratory requirements, they provide crucial alerts and suggestions about atypical results in real time.

LabPro Alert<sub>EX</sub>
› Automate detection of atypical results for quick reporting
› Enable customization of interpretive MIC breakpoints
› Direct staff to the most appropriate action based on customized institutional procedures

LabPro Connect
› Manage identification and antibiotic susceptibility testing (ID/AST) data right from your laboratory workstation
› Consolidate data from multiple testing systems, for epidemiology and other management reports, right in your laboratory office
› Choose between a closed or open system on your laboratory’s local area network (LAN)

LabPro Information Manager
› Powerful management of microbiology results—from order to LIS transmission—increases efficiency
› Easy-to-use and customizable software provides customers with the flexibility to make results actionable

LabPro-MBT
› Combine antibiotic susceptibility testing (AST) results with rapid MALDI identifications within LabPro
› Apply LabPro and Alert<sub>EX</sub> customization rules for seamless results management
Select colonies with Prompt
Standardize inocula without time-consuming turbidity using the Prompt Inoculation System.

Prepare inoculum with Prompt
Inoculum stability of up to four hours allows for flexibility in the workflow.

Inoculate panel with RENOK
Simultaneous inoculation of all 96 wells of the panel simplifies the workflow.

Get results with the MicroScan system
Use the LabPro software suite for customizable data analysis and management.

The MicroScan panel guide and Biotype Lookup Program online tools help streamline your panel selection and provide 24/7 access to our powerful database of atypical organisms.

“I love LabPro Connect. It made a real difference—particularly in our unusually shaped laboratory, where we used to be bunched up to read results on the computer. We can now read results, resolve exceptions and reorder panels from wherever we are sitting, saving us time and eliminating congestion.”

Angela Beth Prouse, M.S. M.T. (ASCP)
Clinical Microbiologist
Peninsula Regional Medical Center
DISCOVER THE SMART CHOICE IN MICROBIOLOGY AUTOMATION

Pre-analytical

 Specimen collection

 Specimen processing

 Analytical

 Specimen collection

 Specimen processing

 Rapid ID

 Copan ESwab™
 › Standardizes collection of diverse specimen types (e.g., sputum, blood, urine, stool, etc.)
 › The only liquid-based, multipurpose system that maintains viability of aerobic, anaerobic and fastidious bacteria
 › Facilitates automation and elutes samples in seconds

 Copan WASP® DT: Walk-Away Specimen Processor
 › Automates all core aspects of microbiology specimen processing
 › Dual-streaking capability allows customer to use bi-plates and provides cost savings
 › Modular design allows future addition of new modules—including WASPLab for robotic incubation and digital culture analysis

 Bruker MALDI Biotyper® system
 › Rapid organism identification complements ID/AST testing on the MicroScan WalkAway plus System
 › Applies to a wide range of microorganisms with accuracy comparable to nucleic acid sequencing
 › Offers cost-effective, faster identification than traditional methods

Bruker MALDI Biotyper® system

Bruker MALDI Biotyper® system
Beckman Coulter’s integrated solution provides best-in-class technologies, expert consultations and top-ranked support. This comprehensive approach fully automates pre-analytical, analytical and post-analytical tasks, saving time, reducing overhead and ultimately improving patient care.

**MicroScan WalkAway plus System**
- Delivers gold-standard accuracy for microorganism identification and susceptibility testing
- Enables simultaneous processing of conventional, rapid and specialty panels on a single, automated platform
- Provides accurate emerging resistance detection for the toughest pathogens including VISA, VRSA, MRSA and CRE

**LabPro information management systems**
- Powerful data management of laboratory test results—from order to LIS transmission—increases efficiency in busy and complex laboratories

"Partnering with Beckman Coulter is helping us reduce costs and improve the consistency of our work."

Dale Kahn, M.T. (ASCP), Central Laboratory Operations Director, Alverno Clinical Laboratories
SPEED AND ACCURACY
FROM MicroScan SYSTEMS

Accuracy matters
The MicroScan WalkAway plus System uses real MIC technology to provide the accurate results that laboratories need to operate efficiently.

Scalable solutions for every laboratory
MicroScan systems are available in three sizes:
› autoSCAN-4
› MicroScan WalkAway 40 plus
› MicroScan WalkAway 96 plus

Resistance detection done right
Available panel types for use with MicroScan systems include:
› Conventional panels
› Rapid ID panels
› Specialty ID panels
› MICroSTREP plus panels
› ESβL plus panels

Make accurate results actionable
Our advanced software programs—LabPro Information Manager, LabPro Connect and LabPro Alert—are adaptable to unique laboratory requirements and provide crucial alerts and suggestions about atypical results.

Streamline your workflow
With sophisticated tools to support efficient workflow, including the Prompt Inoculation System and the RENOK Rehydrating Inoculator, MicroScan systems help you get the quick and accurate results you need.

The smart choice in microbiology automation
Our Smart Microbiology Automation Solution combines the proven accuracy of the MicroScan product family with powerful workflow efficiencies delivered by Copan WASP and Bruker MALDI Biotyper systems.
**Gram-positive**

*Staphylococcus and related genera*

- Kocuria kristinae
- Listeria monocytogenes
- Micrococcus and related species
- Rhodococcus equi
- Rothia dentocariosa
- Rothia mucilaginosa
- Staphylococcus aureus
- Staphylococcus auricularis
- Staphylococcus capitis ssp. capitis
- Staphylococcus epidermidis
- Staphylococcus hominis
- Staphylococcus intermedius
- Staphylococcus lugdunensis
- Staphylococcus saprophyticus
- Staphylococcus schleiferi ssp. schleiferi
- Staphylococcus simulans
- Staphylococcus sciuri
- Staphylococcus warneri
- Staphylococcus xylosus

**Streptococcaceae**

- Aerococcus viridans
- Enterococcus avium
- Enterococcus casseliflavus
- Enterococcus durans/hirae
- Enterococcus faecalis
- Enterococcus faecium
- Enterococcus gallinarum
- Enterococcus raffinosus
- Gemella species
- Leuconostoc species
- Pedicoccus species
- Streptococcus agalactiae (Group B)
- Streptococcus anginosus group
- Streptococcus bovis group
- Streptococcus dysgalactiae ssp. dysgalactiae
- Streptococcus equi ssp. equi
- Streptococcus iniae
- Streptococcus mitis/oralis
- Streptococcus mutans
- Streptococcus pneumoniae
- Streptococcus pyogenes (Group A)
- Streptococcus salivarius
- Streptococcus sanguinis

**Gram-negative**

**Glucose fermenters**

- Aeromonas caviae complex
- Aeromonas hydrophila group
- Aeromonas veronii complex
- Cedecea davisae
- Cedecea lapagei
- Cedecea neteri
- Cedecea species 3
- Cedecea species 5
- Chromobacterium violaceum
- Citrobacter amalonaticus
- Citrobacter braakii
- Citrobacter freundii
- Citrobacter gilienii
- Citrobacter koseri
- Citrobacter muriniae
- Citrobacter rodentium
- Citrobacter sedlakii
- Citrobacter werkmanii
- Citrobacter youngae
- Cronobacter sakazakii
- Edwardsiella tarda
- Enterobacter aerogenes
- Enterobacter amnigenus 1
- Enterobacter amnigenus 2
- Enterobacter asburiae
- Enterobacter cancerogenus
- Enterobacter cloacae
- Enterobacter gergoviae
- Enterobacter hormaechei
- Escherichia albertii
- Escherichia coli
- Escherichia coli (inactive)
- Escherichia fergusonii

**Glucose non-fermenters**

- Cupriavidus paucus
- Cupriavidus species
- Delftia acidovorans
- Elizabethkingia meningoseptica
- Empedobacter brevis
- Myroides species
- Ochrobactrum anthropi
- Paracoccus yeei (CDC group EO-2)
- Pseudomonas aeruginosa
- Pseudomonas alcaligenes
- Pseudomonas alcaligenes
- Pseudomonas fluorescens
- Pseudomonas putida
- Pseudomonas uterina
- Pseudomonas mendocina
- Pseudomonas oryzihabitans
- Pseudomonas stutzeri

**Related genera**

- Salmonella enterica serotype Paratyphi A
- Salmonella enterica serotype Typhi
- Salmonella enterica ssp. arizonae
- Serratia ficaria
- Serratia liquefaciens complex
- Serratia marcescens
- Serratia odorifera
- Serratia plymuthica
- Serratia rubidaea
- Shigella sonnei
- Shigella species
- Tatumella pyoseis
- Vibrio alginolyticus
- Vibrio cholerae
- Vibrio fluvialis/furnissii
- Vibrio metschnikovii
- Vibrio mimicus
- Vibrio parahaemolyticus
- Vibrio species
- Vibrio vulnificus
- Yersinia enterocolitica
- Yersinia frederiksenii
- Yersinia intermedia
- Yersinia pestis
- Yersinia pseudotuberculosis
- Yersinia ruckeri
- Yokenella regensburgei

**Comamonas testosteroni**

**Species**

- Burkholderia pseudomallei
- Cupriavidus paucus
- Delftia acidovorans
- Elizabethkingia meningoseptica
- Empedobacter brevis
- Myroides species
- Ochrobactrum anthropi
- Paracoccus yeei (CDC group EO-2)
- Pseudomonas aeruginosa
- Pseudomonas alcaligenes
- Pseudomonas alcaligenes
- Pseudomonas fluorescens
- Pseudomonas putida
- Pseudomonas uterina
- Pseudomonas mendocina
- Pseudomonas oryzihabitans
- Pseudomonas stutzeri

**Species**

- Salmonella enterica
- Serotype Paratyphi A
- Salmonella enterica
- Serotype Typhi
- Salmonella enterica
- Serratia ficaria
- Serratia liquefaciens complex
- Serratia marcescens
- Serratia odorifera
- Serratia plymuthica
- Serratia rubidaea
- Shigella sonnei
- Shigella species
- Tatumella pyoseis
- Vibrio alginolyticus
- Vibrio cholerae
- Vibrio fluvialis/furnissii
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- Vibrio mimicus
- Vibrio parahaemolyticus
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- Yersinia enterocolitica
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- Yersinia intermedia
- Yersinia pestis
- Yersinia pseudotuberculosis
- Yersinia ruckeri
- Yokenella regensburgei
References

1. The assessment of clinically significant limitations is based upon a tabulation of CLSI Group A and B test and report recommendations published in the M100 guidance documents (excluding species with natural resistance) and 1st and 2nd drugs of choice published in The Medical Letter’s Handbook of Antimicrobial Therapy, compared with the related FDA 510K summaries, device manufacturer’s package inserts and product recall information.


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Prompt is a registered trademark of 3M.
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