BD integrated microbiology solutions

From a trusted partner in diagnostics

From positive blood culture to identification and susceptibility testing, BD informs healthcare professionals to help provide timely and targeted therapeutic decisions.
Integrated solutions from specimen collection to final result

BD informatics solutions provide secure, scalable connectivity, delivering actionable insights to improve laboratory productivity and facilitate timely and appropriate decisions

Pre-analytical

- BD Chloraprep™ skin preparation products
- BD Vacutainer® UltraTouch™ push button blood collection set
- BD BACTEC™ blood culture media
- BD Synapsys™ microbiology informatics solution

Analytical

- BD BACTEC™ FX blood culture instruments
- BD Bruker MALDI Biotyper™ system
- BD Phoenix™ Automated Microbiology System for identification and susceptibility testing

Post-analytical

- BD EpiCenter™ data management system
- BD Synapsys™ microbiology informatics solution for blood culture

By delivering a comprehensive workflow solution for suspected sepsis, from specimen collection to data management, including identification and susceptibility testing, BD can help healthcare professionals:

- Improve detection of positive blood cultures\(^1\)\(^3\)
- Standardize the preparation of testing for ID/AST testing
- Accurately report ID/AST results in a timely manner
- Obtain insights to improve blood collection best practices, enhance operational outcomes and streamline laboratory workflow
- Communicate critical results more efficiently to clinicians
Microbiology laboratories face many challenges in an ever-changing environment:

- Antimicrobial resistance is rising
- Staffing shortages combined with increased testing volumes
- Financial pressures due to consolidation, declining reimbursement, and increasing competition

BD provides end-to-end, integrated clinical microbiology solutions enabling healthcare professionals to:

- Achieve accuracy in organism recovery and identification and susceptibility testing to help inform clinicians on treatment guidance decisions
- Potentially reduce laboratory turnaround times
- Improve operational efficiencies and potentially reduce the need for repeat testing
Helping to reduce laboratory turnaround times

As a leader in blood culture testing, the BD BACTEC™ blood culture system has been helping to accurately identify positive blood cultures for more than 50 years. Combining this expertise with a comprehensive identification and susceptibility platform, BD provides accurate and timely test results, which may help clinicians guide their therapy and patient management decisions.

- Reduced time to detection with BD BACTEC blood culture media, supporting faster recovery of both aerobic and anaerobic organisms
- Minimized delays in blood culture processing with satellite testing options, powered by BD Synapsys microbiology informatics solutions
- Rapid, accurate identification and susceptibility with BD Bruker MALDI BioTyper™ and BD Phoenix™ system
- Timely communication of critical test results to clinicians with BD Synapsys informatics

BD offers a broad portfolio of blood culture solutions that help optimize organism recovery. To achieve accurate identification results, BD has partnered with Bruker, an established leader in MALDI-TOF technology. By combining this rapid identification with the BD identification and susceptibility testing solutions, BD provides clinicians with accurate and timely results to help guide their therapy and patient management decisions.

- Improved specimen quality with BD collection and transport solutions, along with media formulations optimized for organism recovery
- Demonstrated ability to detect emerging resistance with unique dual growth detection technology as compared to other testing solutions
- Intuitive on-demand antibiogram generation with flexible reporting options

Achieve accuracy in organism recovery and identification and susceptibility testing to help inform clinicians on treatment guidance.
Improve operational efficiencies and potentially reduce the need for repeat testing.\textsuperscript{5-7,9}

BD provides modular and integrated products powered by scalable software solutions that may enhance workflow in labs of all sizes and complexity.

- BD blood culture media bottles integrate with BD Vacutainer blood collection sets, minimizing the need to use costly adapters
- BD BACTEC™ Plus Aerobic Medium and BD BACTEC™ Lytic Anaerobic Medium have been associated with lower mortality rates and decreased length of stay\textsuperscript{4}
- BD Bruker MALDI Biotyper and BD Phoenix identification and susceptibility testing solutions provide accurate results, enabling clinicians to de-escalate antibiotics in a timely manner, which may help limit the spread of resistance and control unnecessary hospital costs
- BD Synapsys informatics supports laboratories in meeting their compliance needs

From positive blood culture to identification and susceptibility testing and result reporting, BD provides an integrated and trusted microbiology solution.