BD BACTEC™ 9000
Blood Culture System

Unequaled Safety, Performance, Precision and Simplicity in Septicemia Testing
The BACTEC™ 9240 and 9120 blood culture testing systems help improve diagnosis and treatment and reduce health care costs by maximizing laboratory efficiency, safety and productivity.

Continuous Monitoring Technology
- Patient samples are continuously monitored every 10 minutes by the instrument to detect positives as they occur, permitting earlier subculturing and diagnosis for better patient care.
- Advanced algorithms for low blood volume, pediatric specimens and slow-growing organisms such as Haemophilus and Neisseria provide rapid detection in blood culture and extend delayed vial entry capability.
- Automated built-in testing provides continuous quality control of every station every 10 minutes, eliminating the need to perform complicated calibration procedures to conform with U.S. Federal regulations.*

Noninvasive Design
- The BACTEC 9000 Series is the only truly noninvasive system, minimizing the risk to technologists: No bottle venting, no dangerous aerosols and reduced sharps hazard. No connectors or venting units required.
- No need for biohazard hoods or special clothing.
- Exclusive BD Vacutainer™ Safety-Lok™ adapter permits direct draw sample collection, reducing the risk of needle exposure for medical personnel.

High Performance Results
- Unique fluorescent sensor technology enhances testing precision.
- No other system has a shorter protocol or a higher recovery rate than the BACTEC Blood Culture System.
- Supports the complete line of BACTEC Media including standard, LYtic, resin-based (including pediatric) and MYCO/F LYtic for recovery of yeast, fungi and mycobacteria from blood. (Also supports Mycosis IC/F where available.)
**Simple Operation**

- Bar code scanning provides easy step-by-step instructions for rapid bottle entry and test initiation.
- Bi-directional LIS interface permits direct download of patient information, eliminating 90% of keystrokes and enabling personnel on all shifts with differing levels of experience to master data/bottle entry quickly—reducing labor and improving time to results.
- Positive results are automatically flagged every 10 minutes for quick processing. Negative bottles can be batch scanned out of the system and unloaded at the end of the protocol.
- Up to 50 BACTEC Blood Culture and Mycobacteria Instruments can be networked together through the EpiCenter™ Data Management System for easy use in large laboratories.

**EpiCenter™ Data Management System**

- Network integration with all BD instruments
- Bi-directional LIS interface with host query
- Customizable reporting with full graphics capabilities
- Off-line test entry and result reporting
- Advanced query writer with batch results reporting
- User configurable capabilities

**Service and Support**

- Regional Sales Support Specialists are available for on-site customer training as required.
- Technical Service and Customer Service Representatives are trained to provide in-depth customer support.**

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* US CLIA ’88
** Call your local BD representative/office for service and support in your area.
The BACTEC™ 9050 Blood Culture System

The benefits of the larger BACTEC™ Systems in a convenient size for the lower-volume laboratory.

The BACTEC 9050 Blood Culture System combines the features of the BACTEC System into a smaller instrument for laboratories processing fewer than 5 blood cultures per day.

Continuous Monitoring Technology
- Patient samples are continuously monitored every 10 minutes by the instrument to detect positives as they occur, permitting earlier subculturing and diagnosis for better patient care.
- Advanced algorithms for low blood volume, pediatric specimens and slow-growing organisms such as *Haemophilus* and *Neisseria* provide rapid detection in blood culture and extend delayed vial entry capability.

- Automated built-in testing provides continuous quality control of every well, every 10 minutes, eliminating the need to perform complicated calibration procedures. Complies with CLIA ‘88 regulations in the U.S.A.

Noninvasive Design
- The BACTEC 9000 Series is the only truly noninvasive system, minimizing the risk to technologists: No bottle venting, no dangerous aerosols and reduced sharps hazard. No connectors or venting units required.
• No need for biohazard hoods or special clothing.
• Exclusive BD Vacutainer Safety-Lok adapter permits direct draw sample collection, reducing the risk of needle exposure for medical personnel.

**High Performance Results**

• Unique fluorescent sensor technology enhances testing precision.
• No other system has as short a protocol or as high a recovery rate as the BACTEC Blood Culture System.
• Supports the complete line of BACTEC Media including standard, LYtic, resin-based (including pediatric) and MYCO/F LYtic for recovery of yeast, fungi and mycobacteria from blood.

**Simple Operation**

• Fixed bar code reader minimizes user interaction.
• Liquid crystal display with operator soft keys simplifies operation.
• Removal of positives.
• Removal of negatives.
• Printing of patient reports.
• Bottle status display features a graphic representation of all instrument and bottle conditions.
• Positive results are automatically flagged every 10 minutes for quick processing.
• No external computer to occupy valuable counter space or complicate operations.
Media is the heart of the BACTEC™ System, offering superior performance with the widest range of media choices.

**BACTEC PLUS Media**
- PLUS aerobic, anaerobic and pediatric media demonstrate unmatched recovery of pathogens from blood.
- Exclusive resin component effectively neutralizes a wide variety of antibiotics, allowing growth of microorganisms that would not occur in conventional media.
- Increased recovery facilitates a more accurate diagnosis and effective treatment, leading to shorter hospital stays, lower patient costs and greater overall efficiency.
- **Peds Plus™** medium permits excellent recovery of organisms from smaller patient samples usually associated with pediatric patients.

**BACTEC LYTIC/10 Anaerobic Medium**
- Lysing agent increases detection of organisms partially phagocytized by white blood cells.
- Provides faster time to detection for facultative and anaerobic organisms.
- Superior recovery rates and time to detection compared to standard anaerobic media.
- Capitalizes on BACTEC System software algorithms to increase the frequency of early detection and diagnosis.
**BACTEC Standard Media**
- Provides suitable growth media for all types of bacteria and yeast.
- Superior performance compared to standard conventional media used in manual blood culture systems.
- Offers the lowest cost alternative of all media choices without compromising quality.

**BACTEC MYCO/F LYTIC Medium**
- Simple whole blood procedure saves valuable time, labor, materials and costs, while reducing the risks associated with handling potentially contaminated blood.
- Recovers more yeast, fungi and mycobacteria faster than solid media at the lowest cost-per-test.
- Simplifies ordering and inventorying by providing superior detection of all three microorganism groups (including *H. capsulatum*) with a single test.
- Lysing agent increases detection of organisms partially phagocytized by white blood cells.

**BACTEC™ Introduces Blood Culture Procedural Trays**
Now the hospital’s best choice for safer, more cost-effective and standardized blood collection and blood culture procedures is the BACTEC Blood Culture Procedural Tray. Trays include the Vacutainer® Brand Safety-Lok Blood Collection Set, Standard Needle Holder, and new Persist™ Skin Prep Swabs which apply in one step and dry in 30 seconds.

- Increase recovery of pathogens
- Provide a capitated supply cost
- Reduce specimen contamination
- Increase labor efficiency and shorten workflow
- Enhance cost avoidance and improve reimbursement potential
- Reduce stock loss using a standardized system
- Improve healthcare worker’s safety

Choose from three tray configurations:
- Adult Tray 1—includes BACTEC PLUS Aerobic/F & LYTIC/10 Anaerobic/F media
- Adult Tray 2—features BACTEC Standard/10 Aerobic/F & Standard Anaerobic/F media combination
- Pediatric Tray 3—features BACTEC Peds Plus medium, designed for use with children or where low blood volume specimens are anticipated
The EpiCenter™ Data Management System

A companion workstation designed to provide advanced workflow and custom reporting for network integrated BD instruments.

The BDProbeTec™ ET system offers an amplified SDA probe assay for *C. trachomatis* and *C. trachomatis/N. gonorrhoeae*, *M. tuberculosis* Culture ID Test* and Direct MTB Test.

Phoenix™ 100 Automated Identification and Susceptibility System, the new choice in automated microbiology.

LIS (Laboratory Information System)
**HEALTH CARE SOLUTIONS THROUGH MICROBIOLOGY**

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**BACTEC**™ **MGIT™ 960** automated mycobacteria growth and detection system.

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* M. tuberculosis Culture ID Test not available in the United States.
The BD BACTEC™ Data Management System

*Power and flexibility to address every laboratory’s unique information strategy.*

The BD BACTEC Data Management System supports the enhanced capabilities of the BACTEC 9000 System instruments. Choose from four levels of data management to simply and effectively harness the BACTEC System’s full potential.

**Level I**
The BACTEC 9000 System with bar code icon interface:
- Increases workflow
- Monitors instrument status
- Tracks and reports in-protocol specimens

**Level II**
Level I plus:
- LIS connectivity to all interfaces written to ASTM standards
- Bi-directional capability to download patient demographics directly to core system computer
- Saves valuable technologist time, speeds reporting of results
- Records patient demographics and specimen results

**Level III—BACTEC VISION**
Level II plus: extended data management
- Local Area Network (LAN) capability
- Bi-directional LIS connectivity following ASTM protocols
- Consolidates patient and specimen demographics for enhanced reporting options
- Query launcher which permits user-defined queries for customized reports

**Level IV—EpiCenter Data Management System**
Level III plus: advanced data management capabilities
- The EpiCenter System is a companion workstation designed to provide advanced workflow and custom reporting for network integrated BD instruments.
- Customizable reports with full graphical capabilities track isolate source, recovery comparisons by media type, contamination rates and trends—all with the ability to export or print findings.
- Bi-directional interfaces with all LIS systems and the capability to write to ASTM standards eliminate duplicate data entry for important patient demographic and test information.
- The powerful DataView module opens up the entire EpiCenter database to user defined queries—limited only by the user’s imagination.
### BACTEC™ 9000 System Configurations

<table>
<thead>
<tr>
<th>Requirement</th>
<th>9120 w/Stand</th>
<th>9240 w/Stand</th>
<th>9120/9240 w/Stand</th>
<th>9240/9240 w/Stand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>55 in. (139.7 cm.)</td>
<td>68 in. (172.72 cm.)</td>
<td>66 in. (167.64 cm.)</td>
<td>79 in. (200.66 cm.)</td>
</tr>
<tr>
<td>Width</td>
<td>58 in. (147.32 cm.)</td>
<td>58 in. (147.32 cm.)</td>
<td>58 in. (147.32 cm.)</td>
<td>58 in. (147.32 cm.)</td>
</tr>
<tr>
<td>Depth</td>
<td>27 in. (68.58 cm.)</td>
<td>27 in. (68.58 cm.)</td>
<td>27 in. (68.58 cm.)</td>
<td>27 in. (68.58 cm.)</td>
</tr>
</tbody>
</table>

### BACTEC™ 9000 System Specifications

<table>
<thead>
<tr>
<th>Requirement</th>
<th>BACTEC™ 9240</th>
<th>BACTEC™ 9120</th>
<th>BACTEC™ 9050</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>37 in. (93.98 cm.)</td>
<td>24 in. (60.96 cm.)</td>
<td>28.5 in. (72.39 cm.)</td>
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<tr>
<td>Width</td>
<td>51 in. (129.54 cm.)</td>
<td>51 in. (129.54 cm.)</td>
<td>24.0 in. (60.96 cm.)</td>
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<tr>
<td>Depth</td>
<td>22 in. (55.88 cm.)</td>
<td>22 in. (55.88 cm.)</td>
<td>25.5 in. (64.77 cm.)</td>
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<tr>
<td>Weight</td>
<td>680 lbs. (308.45 kg.)</td>
<td>450 lbs. (204.12 kg.)</td>
<td>100 lbs. (45.36 kg.)</td>
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<tr>
<td>Temperature</td>
<td>68°F to 86°F (20°C to 30°C)</td>
<td>68°F to 86°F (20°C to 30°C)</td>
<td>65°F to 89°F (18.3°C to 31.1°C)</td>
</tr>
<tr>
<td>Humidity (relative)</td>
<td>10% to 85%</td>
<td>10% to 85%</td>
<td>10% to 90%</td>
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<tr>
<td>Input Voltage</td>
<td>115v/220v±10%</td>
<td>115v/220v±10%</td>
<td>115v/220v±10%</td>
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<tr>
<td>Input Current</td>
<td>10 amps max</td>
<td>10 amps max</td>
<td>2.5 amps max</td>
</tr>
<tr>
<td>Input Line Frequency</td>
<td>50/60Hz ± 3 Hz</td>
<td>50/60Hz ± 3 Hz</td>
<td>50/60Hz ± 3 Hz</td>
</tr>
</tbody>
</table>