Microbiology Identification and Susceptibility Solutions

BD offers the best solutions to meet your microbiology needs

H.E.R.O.™ Solutions for Microbial Identification
With over 100 years of experience in the development and manufacturing of clinical and industrial microbiological products under the BBL™ and Difco™ brands, BD Diagnostics is committed to providing you with the most highly responsive and technically relevant solutions, increasing operational efficiency, and elevating quality standards.

Our continuum of products include: collection and transport, dehydrated & prepared culture media, atmospheric generation, diagnostic stains and reagents, and identification and susceptibility for a variety of microbiological applications.
Gram and AFB Stain Kits and Control Slides

Convenient and cost-effective method for performing quality control of Gram, acid-fast and fluorescent staining procedures. BD BBL Gram QC slides and BD BBL AFB QC slides eliminate the need for the lab staff to maintain stock QC cultures and prepare QC slides. In addition, these slides help standardize laboratory procedures.

Gram QC Slides
- Conventional 1” x 3” microscope slides imprinted with 10 squares.
  - One square contains control organisms Staphylococcus aureus and Escherichia coli.
  - Remaining nine squares are available for staining test isolates.

AFB QC Slides
- Conventional 1” x 3” microscope slides imprinted with two circles.
  - First circle is an acid-fast positive control with Staphylococcus aureus and Bacillus subtilis plus inactivated Mycobacterium tuberculosis H37Ra.
  - Second circle is a negative control with an unstained mixture of non-acid-fast cocci (Staphylococcus aureus) and bacilli (Bacillus subtilis).

Acridine Orange Stain
Acridine Orange Stain is used for detecting microorganisms in direct smears by fluorescence. It’s especially beneficial in screening normally sterile specimens where few organisms may be present. Bacteria stain bright orange; human cells, tissue debris and protein material stain pale green to yellow.

BD offers a complete line of microbiological stains, as well as quality control slides, for Gram and acid-fast staining procedures. All BD/DOO stain kits are conveniently packaged in a compact tray and feature no-drip, “keep clean” cap spouts, both on 250 mL bottles and gallon containers.

Gram and AFB QC Slides

Gram and AFB Stain Kits

4-Step Gram Stain Kit
Available with Stabilized/Unstabilized Iodine.

2-Step AFB Stain Kit
The TB Quick Stain Kit is a rapid 2-step modification of the Ziehl-Neelsen and Kinyoun techniques. No heating of slides, no separate decolorization steps or filtering is required.

3-Step AFB Stain Kit
The AFB staining product line includes the traditional Kinyoun or Ziehl-Neelsen Stains. For fluorescent stains, the TB Fluorescent Kit T contains the Auramine-Rhodamine stain. Rhodamine offers the benefit of reducing non-specific background fluorescence that may be present in either culture or clinical specimens. BD also offers the TB Fluorescent Kit M that contains only Auramine.

Acridine Orange Stain
BD™ Innoculating Loops and Needles

State-of-the-art plastic molding technology guarantees volume delivery consistency

Color-coded for easy product identification

Freedom from lubricants, oils and electrostatic charges enables consistent wetting and complete liquid transfer

Ultra-smooth loop surfaces allow easy streaking

Sterile, resalable, easy-to-use packaging

AFR QC Slides
- Conventional 1” x 3” microscope slides imprinted with two circles.
  - First circle is an acid-fast positive control with Staphylococcus aureus and Bacillus subtilis plus inactivated Mycobacterium tuberculosis H37Ra.
  - Second circle is a negative control with an unstained mixture of non-acid-fast cocci (Staphylococcus aureus) and bacilli (Bacillus subtilis).

Gram QC Slides
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A serologic latex slide agglutination method for the qualitative detection of capsular antigens of *Streptococcus pneumoniae* directly from isolated colonies or pure cultures from liquid nutrient broth. Visible agglutination occurs when the *S. pneumoniae* capsular antigen reacts with the antibody-coated latex beads.

**BD BBL™ Pneumoslide™ Test Kit**

The BD BBL DrySlide provides the alternative to biochemical testing. Reagent is dried on the slide, eliminating the need for reagent addition. Each slide is divided into four large segments, allowing for multiple testing on one slide. The rapid slide tests are:
- **Indole**, results in 30 seconds
- **Oxidase**, results in 20 seconds
- **Nitrocefin**, results in 60 minutes
- **PYR**, results in 3 minutes

**BD BBL™ Staphyloslide™ Latex Test Kit**

The Staphyloslide test is a rapid slide latex agglutination test designed to detect a cell-wall polypeptide clumping factor (CF) produced by most *S. aureus* strains. The CF is distinct from free coagulase and reacts directly with fibrinogen. Latex beads sensitized with fibrinogen are mixed with suspect organisms. If the clumping factor is present, the soluble protein fibrinogen is altered to insoluble fibrin and causes clumping of the latex beads. Complete with disposable cards and stirrers.

**BD BBL™ Streptocard™ Acid Latex Test**

- Fast and convenient dropper bottle reagents
- Maximum antigen yield for highly sensitive results
- Easy interpretation—blue latex reaction
- Instant nitrous acid room temperature extraction
- Improved workflow—no incubation

**BD BBL™ Streptocard™ Enzyme Latex Test**

- Fast and convenient dropper bottle reagents
- Maximum antigen yield from unique enzyme extraction procedure, for highly sensitive results
- Easy interpretation—blue latex reaction
- Color-coded reagent bottles packaged in convenient work station

**BD BBL™ Streptocard™ Strep Grouping Test Kit**

- Includes added reagent for identification of Strp Group D
- Fast and convenient dropper bottle reagents
- Maximum antigen yield from unique enzyme extraction procedure, for highly sensitive results
- Easy interpretation—blue latex reaction
- Color-coded reagent bottles packaged in convenient work station
The BD BBL Enterotube II incorporates 15 standard biochemical tests contained in a unique, ready-to-use, compartmented tube designed to permit the simultaneous inoculation of 12 test media. This innovative product system provides rapid, accurate identification solutions with a high level of reproducibility and excellent agreement with the standard technique classically employed.

BD BBL™ Taxo™ Discs and Strips

Taxo brand products are easy-to-use discs and strips for classical identification of microorganisms. Each disc or strip contains specific dried chemical reagents, providing a cost-effective identification and differentiation tool. The most popular of the Taxo products are the Taxo A and Taxo P discs. By simply placing a Taxo A disc onto a BBL™ ssA™ plate and looking for a zone of inhibition, you can provide presumptive identification of group A streptococci. In a similar manner, the Taxo P disc, when placed onto a BBL TSA II 5% Sheep Blood plate, detects pneumococci. The BBL™ Taxo product line includes discs for identifying Haemophilus influenzae, group B streptococci and anaerobic organisms, among others.

BD BBL™ Crystal™ MIND Software

Crystal MIND software, when used with the Crystal AutoReader, provides automated panel reads. The Crystal MIND software can also be used under manual mode without the Crystal AutoReader. All future Crystal MIND software updates will be found for free download at www.bd.com/ds/CrystalMIND.

BD BBL™ Crystal™ AutoReader

The BBL Crystal AutoReader is easy-to-use for consistent and reproducible results without subjective interpretation. Reagent-free BBL Crystal ID Systems provide identification of over 500 bacteria, with automated interpretation. Crystal MIND software compatible with Windows® 3.11, Windows NT4.0, Win95, Win98, Win2000, and WinXP.

IDENTIFICATION TESTING SYSTEMS

BD BBL™ Crystal™ Identification System

The BBL Crystal System requires only one-step for inoculation. Once inoculated, the panels provide a closed system that is safe and easy to handle. Reagent addition and oil overlay are completely eliminated by the panel design. This miniaturized identification system has proven accuracy in identifying nearly 500 organisms. The Crystal panels may be read manually or with the BBL Crystal AutoReader. The AutoReader enables the laboratory to read panels rapidly, while at the same time taking the subjectivity out of the identification. The AutoReader utilizes Crystal MIND software, which enables batch readings and printing of reports. The software may also be used for manual readings, providing workflow flexibility.

• One kit provides identification of enterics and non-fermenters
• One kit provides identification of gram-positive aerobic organisms
• All components required for testing are contained in each kit
• No reagents or oil overlay needed
• Crystal MIND software compatible with: Windows® 3.11, Windows NT4.0, Win95, Win98, Win2000, and WinXP

BD BBL™ Taxo™ Discs and Strips

Taxo brand products are easy-to-use discs and strips for classical identification of microorganisms. Each disc or strip contains specific dried chemical reagents, providing a cost-effective identification and differentiation tool. The most popular of the Taxo products are the Taxo A and Taxo P discs. By simply placing a Taxo A disc onto a BBL™ ssA™ plate and looking for a zone of inhibition, you can provide presumptive identification of group A streptococci. In a similar manner, the Taxo P disc, when placed onto a BBL TSA II 5% Sheep Blood plate, detects pneumococci. The BBL™ Taxo product line includes discs for identifying Haemophilus influenzae, group B streptococci and anaerobic organisms, among others.

BD BBL™ Crystal™ AutoReader

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BD BBL™ Taxo™ Discs and Strips

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BD BBL™ Cefinase™ Discs
A rapid, clear-cut color change makes BBL Cefinase discs the easiest and most convenient method for beta-lactamase detection. These discs contain nitrocefin, the chromogenic cephalosporin, which is recommended for the detection of beta-lactamase in Neisseria gonorrhoeae and Haemophilus influenzae.

BD Phoenix™ Automated Microbiology System
- Rapid, accurate and reliable detection of known and emerging antimicrobial resistance.
- Workflow efficiency utilizing automated nephelometry resulting in a standardized isolate inoculum and a reduction of technologist labor.
- State-of-the-art data management to monitor, analyze and communicate actionable results directly to laboratorians and clinicians.

SUSCEPTIBILITY TESTING SYSTEMS
BD BBL™ Sensi-Disc™ ESBL Confirmatory Discs
Failure to identify an ESBL-producing bacteria may lead to inappropriate treatment and increased mortality. In accordance with CLSI guidelines for confirmatory ESBL testing, BD offers the BBL Sensi-Disc ESBL confirmatory test discs. These cost-efficient discs are an easy-to-use accurate alternative to micro broth dilution testing.

BD BBL™ Sensi-Disc™ Susceptibility Discs
By working closely with pharmaceutical companies, BD is able to provide new antimicrobics on BBL Sensi-Disc discs, as soon as drug development is completed. This continuous process of adding the newest antimicrobics provides our customers with the most complete offering available. BBL Sensi-Disc discs employ the Bauer-Kirby disc diffusion testing method.
- Largest offering of antibiotics (100+), flexibility in testing
- Continuous development of discs containing the latest antimicrobics
- The most cost-effective method for susceptibility testing
- Antimicrobial agents impregnated on high-quality paper
- 50 discs in each cartridge
- Self-tamping dispensers: single, 6, 8 or 12 place

BD BBL™ Prompt™ System
Fast and Easy Preparation of 0.5 McFarland Suspensions
- Accurate 0.5 McFarland preparation in less than 60 seconds
- Prompt can sit at room temperature up to 6 hours, providing flexibility
## Identification Testing Systems

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<tr>
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<th>Description</th>
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<tr>
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<td>BBL™ Crystal™ Enteric/Nonfermenter ID Kit</td>
<td>Pkg of 20</td>
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<tr>
<td>245000</td>
<td>PhoenixSpec™ Nephelometer</td>
<td>Each</td>
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<tr>
<td>245031</td>
<td>BBL™ Crystal™ Panel Viewer (220V, 50Hz)</td>
<td>Each</td>
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<tr>
<td>245032</td>
<td>BBL™ Crystal™ Panel Viewer (110V, 60Hz)</td>
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<tr>
<td>441000</td>
<td>BBL™ Crystal™ MIND Software</td>
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<td>245300</td>
<td>BBL™ Crystal™ AutoReader</td>
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<td>245120</td>
<td>BBL™ Crystal™ Anaerobe ID Kit</td>
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## BD BBL™ TAXO™ DISCS AND STRIPS

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<td>BBL™ Taxo™ X and V Factor Disc</td>
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<td>231105</td>
<td>BBL™ Taxo™ X and V Factor Disc Strip</td>
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<td>231099</td>
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## BD BBL™ ENTEROTUBE™ II

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<td>BBL™ Oxofrom™ Tube II</td>
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## BD BBL™ SENSI-DISC™ SUSCEPTIBILITY DISCS

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<tr>
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<td>231321</td>
<td>BBL™ Sensi-Disc™ Cefoxitin FOX-30</td>
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<td>BBL™ Sensi-Disc™ Ceftazidime CAZ-30</td>
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## Susceptibility Testing Systems

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<td>BBL™ Sensi-Disc™ Ceftazidime CAZ-30</td>
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<td>231951</td>
<td>BBL™ Sensi-Disc™ Cefotaxime CFX-30</td>
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For the entire list of BBL™ Sensi-Disc™ and BBL™ Taxo™ products, please visit www.bd.com/ds/ProductCenter/IS.asp