



# Product Catalog 2012



Helping all people  
live healthy lives

**BD Diagnostics**  
Diagnostic Systems

Eastern Europe  
Middle East  
Africa



# BD - your partner in excellence

BD is a leading global medical technology company that develops, manufactures and sells medical devices, instrument systems and reagents. The Company is dedicated to improving people's health throughout the world. BD is focused on improving drug delivery, enhancing the quality and speed

of diagnosing infectious diseases and cancers, and advancing research, discovery and production of new drugs and vaccines. BD's capabilities are instrumental in combating many of the world's most pressing diseases. Founded in 1897 and headquartered in Franklin Lakes, New Jersey, BD employs

approximately 28,000 people in more than 50 countries throughout the world. The Company serves healthcare institutions, life science researchers, clinical laboratories, the pharmaceutical industry and the general public.

## BD Medical

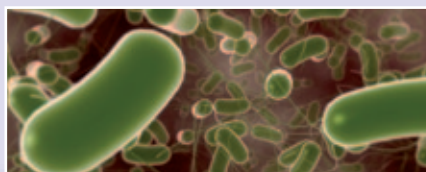
- > Diabetes Care
- > Medical Surgical Systems
- > Pharmaceutical Systems



BD Medical is among the world's leading suppliers of medical devices. BD built the first ever manufacturing facility in the US to produce syringes and needles in 1906 and has been the leading innovator in injection and infusion-based drug delivery ever since.

## BD Diagnostics

- > Diagnostic Systems
- > Preanalytical Systems



BD Diagnostics is a leading provider of products for the safe collection and transport of diagnostic specimens and instruments for quick, accurate analysis across a broad range of infectious diseases, including the growing problem of healthcare-associated infections (HAIs). The segment is composed of two operating units: Preanalytical Systems, a world leader in sample collection, and Diagnostic Systems, a leader in microbiology testing products and molecular assays.

## BD Biosciences

- > Cell Analysis



BD Biosciences is one of the world's leading businesses bringing innovative tools to life scientists, clinical researchers and clinicians. Our customers are involved in basic research, drug and vaccine discovery and development, biopharmaceutical production, clinical trials, diagnostic testing and disease management.

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# Blood Culture Systems



BD Diagnostic Systems offers a variety of BACTEC™ Blood Culture instruments and media to meet the wide range of blood culture demands that are put on hospital and laboratories.

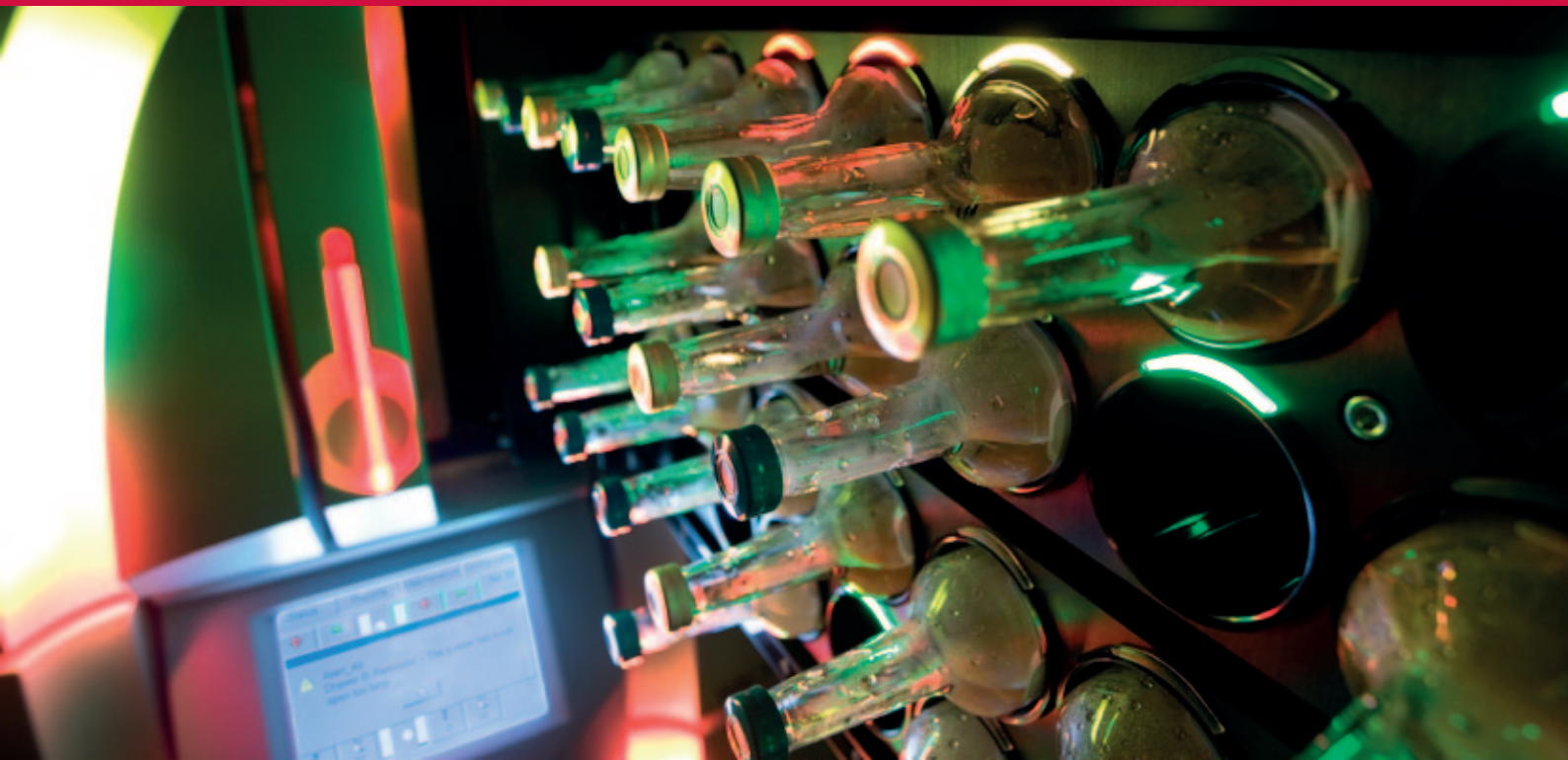
The combination of BACTEC instruments and BACTEC blood culture media help to improve patient diagnosis and treatment and reduce health care costs by optimizing septicemia diagnosis and maximizing laboratory efficiency, safety and productivity.

The BACTEC instruments support the complete line of BACTEC/F media for the recovery of bacteria, yeasts and fungi present in blood. The following section describes the BACTEC instrument options and media choices available.

The choice of instruments and media will provide the lab with the proper capacity of instrumentation and the best possible recovery characteristics for your specific needs.

# BD BACTEC™

## Blood Culture System



### **BD BACTEC™ Blood Culture System**

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# Blood Culture Systems



## BD Bactec™ Instruments

CAT. NO.	SIZE	DESCRIPTION
445800	1	BD BACTEC™ - Blood Culture System BD BACTEC™ 9050
Features include continuous monitoring of culture specimens, non-invasive design, unique fluorescent sensor technology, reliability and robustness, and simple operation. The BD BACTEC™ 9050 blood culture system has a capacity of 50 BD BACTEC™ blood culture vials and is best suited to laboratories processing 5 blood culture bottle pairs per day.		
441385	1	BD BACTEC™ - Blood Culture System BD BACTEC™ FX
441386	1	<p>The BD BACTEC™ FX builds on the proven superior fluorescence detection technology, exceptional media performance and instrument reliability of the BD BACTEC™ 9000 blood culture systems. This is now combined with:</p> <ul style="list-style-type: none"> <li>• the most efficient, intuitive workflow for reduced hands-on time</li> <li>• the most compact, innovative system design for maximum ergonomics and laboratory space utilisation</li> <li>• intelligent cutting-edge data management with enhanced blood culture observation in and out of the laboratory for reduced workflow interruptions and optimised communication of preliminary or final results to caregivers.</li> </ul> <p>The BD BACTEC™ FX System has a modular design which easily accommodates the changing capacity requirements of laboratories. The most common configuration of the BD BACTEC™ FX is a two-module system designed as a stack. The stack (Cat No 441385 and 441386) contains four drawers, each with a 100 vial capacity (400 vial capacity in total). Smaller volume laboratories can choose a single, top-unit system (Cat No 441385) with 2 drawers (200 vial capacity in total). For high volume capacity, multiple (up to 20) stack/top-unit options can be seamlessly integrated into a single system using BD EpiCenter™. Existing BD BACTEC™ 9120/9240 instruments can also be easily combined with BD BACTEC™ FX modules via BD EpiCenter™.</p>



## BD BACTEC™ Media & BD FOS™ Supplement Kit

**CAT. NO.      SIZE      DESCRIPTION**

442192      50 vials      BD BACTEC™ PLUS - Aerobic/F Medium

BD BACTEC™ PLUS - Aerobic/F Medium (enriched soybean-casein digest broth with CO<sub>2</sub>) is used for the culture and recovery of aerobic microorganisms from blood specimens. Optimal results are obtained when 10 ml of blood is used. The vials contain resin for neutralisation of antimicrobials, thus increasing the recovery of microorganisms from patients under antibiotic treatment.



442193      50 vials      BD BACTEC™ PLUS - Anaerobic/F Medium

BD BACTEC™ PLUS - Anaerobic/F Medium Culture Vials (pre-reduced enriched Soybean-Casein Digest broth with CO<sub>2</sub>) are used for the culture and recovery of anaerobic microorganisms (bacteria and yeasts) from blood specimens. This medium has been designed to allow the addition of 10 ml of blood. The addition of these larger volumes results in overall higher detection rates and earlier times to detection. The vials contain resin for neutralisation of antimicrobials, thus increasing the recovery of microorganisms from patients under antibiotic treatment.



442265      50 vials      BD BACTEC™ - Lytic/10 Anaerobic/F Medium

BD BACTEC™ - Lytic/10 Anaerobic/F Medium Culture Vials (pre-reduced enriched Soybean-Casein Digest broth with CO<sub>2</sub>) are used for the culture and recovery of anaerobic microorganisms from blood specimens. BD BACTEC™ Lytic/10 Anaerobic/F vials contain saponin in order to release phagocytosed microorganisms from leukocytes thus increasing the recovery rate and reducing false positives. This medium has been designed to allow the addition of 3-10 ml of blood. The addition of larger volumes results in overall higher detection rates and earlier times to detection. This medium does not contain resins intended for the neutralisation of antibiotics. The vials provide faster time to detection for facultative and anaerobic organisms compared and PLUS anaerobic media.



442194      50 vials      BD BACTEC™ - BD Peds Plus™ Medium

BD BACTEC™ - BD Peds Plus™ Medium Culture Vials (enriched Soybean-Casein Digest broth with CO<sub>2</sub>) are used for the culture and recovery of aerobic microorganisms (mainly bacteria and fungi) from paediatric and other blood specimens which are generally less than 3 ml in volume. The vials contain resin for neutralisation of antimicrobials, thus increasing the recovery of microorganisms from patients under antibiotic treatment.



442003      25 vials      BD BACTEC™ - Myco/F Lytic Medium

BD BACTEC™ - Myco/F Lytic (a modified Middlebrook 7H9 broth) is a non-selective culture medium to be used as an adjunct to aerobic blood culture media for the recovery of mycobacteria, yeast and fungi. This media may also be used for the culture of sterile body fluids when yeast or fungi are suspected. One advantage of this medium is direct inoculation of blood into the blood culture bottle without the need for supplements. Inoculation of blood volumes ranging between 1-5 ml is acceptable, but optimum recovery is obtained with 3-5 ml. This medium is very useful for the characterisation of bloodstream infections of AIDS patients.



442026      25 vials      BD BACTEC™ - Mycosis IC/F Medium Culture Vials

442206      50 vials

BD BACTEC™ - Mycosis IC/F Medium Culture Vials are used for the selective culture and recovery of fungi and yeasts from blood. The medium contains tobramycin and chloramphenicol in order to suppress bacterial growth and saponin in order to release phagocytosed fungi and yeasts from leukocytes. Time to detection of fungi and yeasts is greatly reduced compared to non-selective blood culture media. Acceptable blood volumes range from 8-10 ml. The vials are specially designed for immunosuppressed, neutropenic patients.



442153      1 kit      BD BACTEC™ - BD FOS™ Culture Supplement Kit

BD BACTEC™ FOS™ (Fastidious Organism Supplement) Culture Supplement Kit. Recommended for sterile body fluids other than blood, particularly for CSF specimens. BD FOS™ is provided in a lyophilised form along with a special BD BACTEC™ FOS™ Reconstituting Fluid (BD FOS™ RF) for use with BD BACTEC™ culture media to enhance the growth of fastidious organisms, such as *Haemophilus* spp. and *Neisseria* spp. 1 set is sufficient to inoculate 20 - 24 blood culture vials.



## BD Vacutainer™ Safety solutions for blood collection & Transport



CAT. NO.	SIZE	DESCRIPTION
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367282	4x50 sets	BD Vacutainer™ Safety-Lok™ Blood Collection Set
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Blood Collection Set with safety re-shielding cover and Luer adapter, 21 G  $\frac{3}{4}$ ", 18 cm tubing, green. Recommended for adults. One case consists of 4 x 50 Blood Collection Sets. One Set is necessary for a pair of blood culture bottles.

367284	4x50 sets	BD Vacutainer™ Safety-Lok™ Blood Collection Set (Pediatric Use)
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BD Vacutainer™ Safety-Lok™ Blood Collection Set with safety re-shielding cover and Luer adapter, 23 G  $\frac{3}{4}$ ", 18 cm tubing, light blue. Recommended for pediatric use. One case consists of 4 x 50 Blood Collection Sets. One blood collection system is necessary for one blood culture bottle.

364815	250 pcs.	BD Vacutainer™ One Use Holder
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The combination of the BD Safety-Lok™ Blood Collection Set (Cat. Nos. 367282 and 367284) and the BD Vacutainer™ One Use Holder allows the closed and safe sampling of blood for inoculation into BD BACTEC™ blood culture bottles.

257347	100 pcs	Transport box for Blood Culture Bottles
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Transport box out of styrofoam for 4 BD BACTEC™ blood culture bottles.

## BD Vacutainer™ Safety solutions for subculturing

CAT. NO.	SIZE	DESCRIPTION
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367300	100 pcs	BD Vacutainer™ Luer Adapter
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Used together with the BD Vacutainer™ One Use Holder (Cat. No. 364815) for safe and easy subculturing.

249560	50 pcs	BD BACTEC™ Subculture aerobic venting unit
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Pre-attached and ready to use safe-device for subculturing of positive BD BACTEC™ blood culture bottles.





# Partnering against TB

with BD MGIT™ system



## BD BACTEC™ MGIT™ 960 and BD BACTEC™ MGIT™ 320

The only technology that offers complete solution and reference DST system, with data management capable of impactful surveillance of TB.

WHO reports that “establishing reference laboratory facilities with adequate capacity to supervise DST and surveillance activities in the country is a critical step in MDR-TB control and care<sup>1</sup>”.

# Mycobacteria Testing Systems



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# Mycobacteria Testing Systems

## BD Mycobacteria Specimen Collection, Processing & Staining



### BD Falcon™ Sputum Collection System

CAT. NO.	SIZE	DESCRIPTION
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290020	72	BD Falcon™ Sputum Collection System
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Engineered for safer sputum collection, transport and handling. The specimen is collected directly into a shatter-resistant conical Falcon™ tube, then a protective flap seals off the collection end. The unique hinged design allows for a screw cap to be tightened over the specimen tube without the clinician touching the cap or the collection end of the tube.

### BD MycoPrep™ Mycobacteria Specimen Digestion & Decontamination

CAT. NO.	SIZE	DESCRIPTION
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240862	10 x 75 ml	BD MycoPrep™ - Specimen Digestion/Decontamination Kit
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240863	10 x 150 ml	
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This kit contains reagents necessary for the preparation of respiratory and non-respiratory (blood excluded) specimens for identification of mycobacteria. The kit includes bottles of NaOH-citrate solution (containing a plastic ampule with NALC) and powdered phosphate buffer. After activation of the NALC ampule, the NALC-NaOH mixture is stable for 24 hours. This kit should be stored at room temperature.

- Cat. No. 240862 contains 5 packages of powdered phosphate buffer (pH 6.8)
- Cat. No. 240863 contains 10 packages of powdered phosphate buffer (pH 6.8)

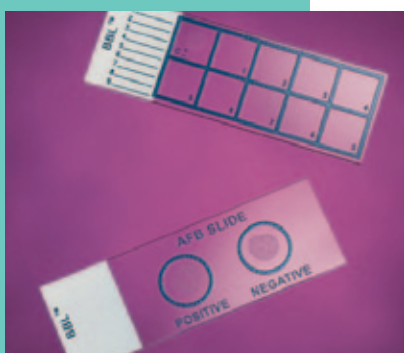


### BD BBL™ Accessories & Supplies for Acid-Fast Procedures

CAT. NO.	SIZE	DESCRIPTION
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231391	50 pcs.	Acid Fast Bacilli (AFB) Quality Control Slide
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The BD BBL™ Acid fast Bacilli (AFB) QC Slides are conventional 1" x 3" microscope slides imprinted with two circles. One circle is an acid-fast positive control with *Staphylococcus aureus* and *Bacillus subtilis* plus inactivated *Mycobacterium tuberculosis* H37Ra. The other circle is a negative control with an unstained mixture of non-acid-fast cocci (*Staphylococcus aureus*) and bacilli (*Bacillus subtilis*). AFB Slides, individually wrapped, sufficient for 50 tests.



## BD Kinyoun (cold) Acid-Fast Procedure

**CAT. NO.**      **SIZE**      **DESCRIPTION**

212522      1 kit      TB Stain Kit K

For staining mycobacteria by the Kinyoun (cold) acid-fast procedure. Each kit contains 1 bottle (250 ml) each of

- TB Carbofuchsin KF
- TB Decolouriser
- TB Brilliant Green K

212518      4 x 250 ml      TB Carbofuchsin KF

Individual component of the TB Stain Kit K (Cat. No. 212522) for staining mycobacteria by the Kinyoun (cold) acid-fast procedure.

212523      4 x 250 ml      TB Brilliant Green K

Individual component of the TB Stain Kit K (Cat. No. 212522) for staining mycobacteria by the Kinyoun (cold) acid-fast procedures. May be used also for staining mycobacteria by the Ziehl-Neelsen (hot) acid-fast procedures.

212517      4 x 250 ml      TB Decolouriser

Individual component of the TB Stain Kit ZN (Cat. No. 212520) for staining mycobacteria by the Ziehl-Neelsen (hot) acid-fast procedure. May also be used for staining mycobacteria by the Kinyoun (cold) acid-fast procedure.



## BD Ziehl-Neelsen (hot) Acid-Fast Procedure

**CAT. NO.**      **SIZE**      **DESCRIPTION**

212520      1 kit      TB Stain Kit ZN

For staining mycobacteria by the Ziehl-Neelsen (hot) acid-fast procedure. Each kit contains 1 bottle (250 ml) each of

- TB Methylene Blue
- TB Decolorizer
- TB Carbofuchsin ZN

212516      4 x 250 ml      TB Methylene Blue

Individual component of the TB Stain Kit ZN (Cat. No. 212520) for staining mycobacteria by the Ziehl-Neelsen (hot) acid-fast procedure. May also be used for staining mycobacteria by the Kinyoun (cold) acid-fast procedure.

212517      4 x 250 ml      TB Decolouriser

Individual component of the TB Stain Kit ZN (Cat. No. 212520) and TB Stain Kit K (Cat. No. 212517) for staining mycobacteria by the Kinyoun (cold) and Ziehl-Neelsen (hot) acid-fast procedures.

212511      4 x 250 ml      TB Carbofuchsin ZN

Individual component of the TB Stain Kit ZN (Cat. No. 212520) for staining mycobacteria by the Ziehl-Neelsen (hot) acid-fast procedure.

## BD TB Fluorescent Stain Kit

**CAT. NO.**      **SIZE**      **DESCRIPTION**

212519      1 kit      TB Fluorescent Stain Kit M

For staining mycobacteria by the Morse, Blair, Weiser and Sproat fluorescent procedure. Each kit contains 1 bottle (250 ml) each of

- TB Auramine M
- TB Decolouriser TM
- TB Potassium Permanganate



# BD Manual Mycobacteria Testing



## BD MicroMGIT Fluorescence Reader & Calibrator

CAT. NO.	SIZE	DESCRIPTION
445923	1	MicroMGIT Fluorescence Reader  The BD BACTEC™ MicroMGIT Fluorescence Reader is used for the qualitative reading of fluorescence in Manual MGIT™ Tubes (4 ml). The reader has a standard 9 volt battery, a low voltage indicator, and dimensions of 9.2 cm x 14.5 cm x 12.0 cm (W x D x H). A calibration tube is included.
441049	1	MicroMGIT Calibrator  Used for calibration of the BD BACTEC™ - MicroMGIT Fluorescence Reader (Cat. No. 445923).

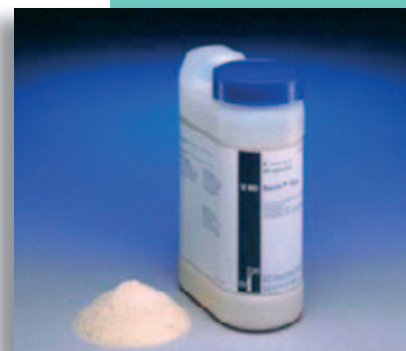
## Manual MGIT™ Tubes & Supplements



CAT. NO.	SIZE	DESCRIPTION
245111	25 tubes	BD MGIT™ - Tubes (manual, 4 ml)
245113	100 tubes	The MGIT™ Mycobacteria Growth Indicator Tubes contain 4 ml of Middlebrook 7H9 Broth base with a fluorescent indicator and is intended for the manual detection and recovery of mycobacteria. The broth is contained in a plastic tube with screw-top cap and supplemented with BD MGIT™ OADC enrichment (Cat. No. 245116) and BD MGIT™ PANTA™ antibiotic mixture (Cat. No. 245114). Acceptable specimen types are digested and decontaminated clinical specimens (except urine) and sterile body fluids (except blood). A culture-positive sample is identified by the observation of non-homogenous turbidity or fluorescence, the latter of which is observed using a 365 nm UV transilluminator, a longwave UV light (Wood's lamp) or the BD MicroMGIT Reader.
245114	6 vials	BD MGIT™ - PANTA™ Antibiotic Mixture  The BD MGIT™ PANTA™ Antibiotic Mixture suppresses growth of contaminating or normal flora, enhancing growth and detection of mycobacteria in BD MGIT™ Tubes. Each vial contains a lyophilized antibiotic mixture of polymyxin B, amphotericin B, nalidixic acid, trimethoprim and azlocillin. Carton of 6 vials, each vial sufficient for 25 BD MGIT™ tubes.
245116	6 vials	BD MGIT™ - OADC Enrichment  The BD MGIT™ OADC enrichment provides substances essential for the rapid growth of mycobacteria in BD MGIT™ 4 ml Tubes. OADC stands for oleic acid, albumin, dextrose and catalase. 6 ready to use vials containing 15 ml each, sufficient for 25 BD MGIT™ tubes.
245119	1 kit	BD MGIT™ - AST SIRE Test Kit  The BD MGIT™ AST SIRE Testing Kit is used for susceptibility testing of Mycobacterium tuberculosis in culture to streptomycin, isoniazid, rifampin and ethambutol (SIRE) in a qualitative test. Carton of 2 vials of each lyophilized antimicrobial (S, I, R, and E) sufficient for 80 tests.

## BD BBL™ & BD Difco™ DCM & Enrichments for Mycobacteria Testing

CAT. NO.	SIZE	DESCRIPTION
212203	500 g	Middlebrook 7H11 Agar Base  Used in qualitative procedures for isolation and cultivation of mycobacteria, especially <i>Mycobacterium tuberculosis</i> , from clinical and non-clinical specimens. Middlebrook OADC Enrichment (Cat. No. 211886, 10 x 20 ml, or Cat. No. 212240, 6 x 100 ml) and glycerol must be added to the agar base before use.
262710	500 g	Middlebrook 7H10 Agar  Used for the isolation, cultivation and susceptibility testing of mycobacteria. Middlebrook OADC Enrichment (Cat. No. 211886, 10 x 20 ml, or Cat. No. 212240, 6 x 100 ml) and glycerol must be added; the complete prepared plated medium (with OADC) is available under Cat. No. 254520, Middlebrook and Cohn 7H10 Agar (see prepared media section below).
271310	500 g	Middlebrook 7H9 Broth  For cultivation of mycobacteria and preparation of tubercle emulsion for susceptibility testing. Middlebrook ADC Enrichment (Cat. No. 211887, 10 x 20 ml, or Cat. No. 212352, 6 x 100 ml) and Glycerol or Tween® 80 must be added to the Broth before use.
211886	10x20ml	Middlebrook OADC Enrichment
212240	6x100ml	Used to supplement culture media for the isolation and cultivation of Mycobacteria



## BD BBL™ Prepared Media (PPMs & Tubes) for Mycobacteria Testing

CAT. NO.	SIZE	DESCRIPTION
221388	10 slants	Lowenstein-Jensen Medium
221387	100 slants	For Semi-Qualitative Catalase Test. Lowenstein-Jensen Medium contain an enriched eggbased medium and are used for the cultivation of mycobacteria, including <i>Mycobacterium tuberculosis</i> . 221388 is a small size slant in Tube size C (9.5 x 113 mm) 220909 is a large size slant in Tube size A (19.5 x 145 mm)
220502	100 tubes	Loewenstein-Jensen Medium with Glycerol and PACT  Used for the cultivation of mycobacteria, especially <i>M. tuberculosis</i> . It is a selective medium containing polymyxin, amphotericin, carbenicillin, and trimethoprim (PACT). Tube size A: 20 x 148 mm.
220505	100 tubes	Stonebrink TB Medium with PACT  Intended for the isolation of mycobacteria, especially <i>M. tuberculosis</i> . It is a selective medium containing Polymyxin, Amphotericin, Carbenicillin, and Trimethoprim (PACT). Tube size A: 20 x 148 mm.
221832	10 x 5 ml	Middlebrook 7H9 Broth with Glycerol  Middlebrook 7H9 Broth with Glycerol is a non-selective liquid culture medium for the cultivation of mycobacteria, including <i>M. tuberculosis</i> . It is used primarily for growth of pure cultures of mycobacteria for use in laboratory studies. Prepared tubes, 5 ml, Size K.
254520	20 plates	Middlebrook and Cohn 7H10 Agar Plates  Middlebrook 7H10 Agar contains a variety of inorganic salts which provide substances essential for the growth of mycobacteria. The sodium citrate, when converted to citric acid, holds certain inorganic cations in solution. Glycerol is an abundant source of carbon and energy. Oleic acid, as well as other long chain fatty acids, can be utilised by tubercle bacilli and plays an important role in the metabolism of mycobacteria. Catalase destroys toxic peroxides that may be present in the medium. The primary effect of albumin is that of protection of the tubercle bacilli against toxic agents, therefore enhancing their recovery by primary isolation. Partial inhibition of bacteria is achieved by the presence of the malachite green dye.
221832	10 x 5 ml	Middlebrook 7H9 Broth with Glycerol  Middlebrook 7H9 Broth with Glycerol is a non-selective liquid culture medium for the cultivation of mycobacteria, including <i>M. tuberculosis</i> . It is used primarily for growth of pure cultures of mycobacteria for use in laboratory studies. Prepared tubes, 5 ml, Size K.



## BD Taxo™ Identification & Differentiation of Mycobacteria

CAT. NO.	SIZE	DESCRIPTION
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231735	50 discs	BD Taxo™ - TB Niacin Test Control
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BD Taxo™ TB Niacin Test Controls are impregnated with nicotinamide and give a positive reaction when tested with a TB Niacin Test Strip. For use with BD Taxo™ TB Niacin Test Strips (Cat. No. 231741). Contains 50 discs per hand-dispensing cartridge, sufficient for 50 tests.

231736	50 discs	BD Taxo™ - INH Test Control
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The BD Taxo™ INH Test Control is an impregnated disc that will yield a positive result in the test procedure. For use with Cat. No. 231743. White, ¼" paper disks with "I" over "C", sufficient for 50 tests.

231741	25 strips	BD Taxo™ - TB Niacin Test Strips
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BD Taxo™ TB Niacin Test Strips assist in the detection of mycobacteria by detecting niacin in culture medium. All mycobacteria produce nicotinic acid, or niacin, which accumulates in culture medium and can be detected using these strips. When BD Taxo™ TB Niacin Test Strips turn yellow, the culture is mycobacteria positive and when no colour appears, the culture is negative. Contains 1 vial with 25 strips, sufficient for 25 tests.

231742	25 strips	BD Taxo™ - Nitrite Test Strips
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BD Taxo™ Nitrite Test Strips are used for differentiation of microorganisms (particularly mycobacteria) based on the reduction of nitrates to nitrites. The nitrate reduction test separates slow growing mycobacteria that are nitrate-positive (e.g., *M. tuberculosis*, *M. kansasii* and *M. fortuitum*) from rapid growers that are negative or only weakly positive (e.g., *M. bovis*, *M. avium* complex and *M. intracellulare*). The presence of the enzyme nitrate reductase is detected by appearance of a blue-coloured end product on the strip, indicating a positive reaction. Sufficient for 25 tests.

231743	25 strips	BD Taxo™ - INH Test Strips
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BD Taxo™ INH Test Strips are used for the detection of isoniazid (INH) and its metabolites in urine. When INH or its metabolites are present in a urine sample, contact with the BD Taxo™ INH strip will change the strip colour to green, blue or purple. This strip is a modification of Kilburn and Kubica's procedure for detecting niacin produced by *M. tuberculosis*. White paper strips encased in a plastic tube. Arrows are imprinted on both sides. Sufficient for 25 tests; storage should be at 2-8° C.





# BD BACTEC™ MGIT™ Automated Mycobacteria Testing

## BD BACTEC™ MGIT™ Instruments & Accessories

CAT. NO.	SIZE	DESCRIPTION
445870	1	BD BACTEC™ MGIT™ 960 - Mycobacterial Detection Instrument
		The BD BACTEC™ MGIT™ 960 Instrument is a nonradiometric and fully automated system for the rapid detection of mycobacteria in clinical specimens other than blood. The BD BACTEC™ MGIT™ 960/320 is also used for the antimicrobial susceptibility testing of mycobacteria, including SIRE and PZA susceptibility testing. The instrument has a maximum capacity of 960 BBL™ MGIT™ tubes (7 ml), or with a 42-day detection protocol, approximately 8000 specimens per year. The BD BACTEC™ MGIT™ 960/320 System, in conjunction with the BD EpiCenter™ Data Management System, allows for long-term data storage and historical trending as well as a bidirectional interface with a LIS. This enables long-term tracking of individual TB patients, infection control and epidemiology analysis.
441743	1	BD BACTEC™ MGIT™ 320 - Mycobacterial Detection Instrument
		BD's newest automated mycobacterial detection instrument, for lower volume laboratories. Same simplicity and ease of use, minimal hands-on time and simple 4-step workflow. Holds 320 tubes for an annual capacity of approximately 2700 specimens per year. Offers optimal use of valuable laboratory space and a flexible configuration as bench-top or stand-mounted.
445871	17 vials	BD BACTEC™ MGIT™ 960/320 - Calibrators Kit
445999	51 vials	16 vials are sufficient for 1 drawer.

## BD BACTEC™ MGIT™ Tubes & Supplement

CAT. NO.	SIZE	DESCRIPTION
245122	100 tubes	BD BACTEC™ MGIT™ 960/320 - Tubes 7 ml
		The BACTEC™ MGIT™ Tube is intended for the detection and recovery of mycobacteria using the BD BACTEC™ MGIT™ 960/320 system. Each plastic tube has a screw-top cap and contains 7 ml of modified Middlebrook 7H9 Broth base, which is supplemented with BD BACTEC™ MGIT™ Growth Supplement (Cat. No. 245124). Acceptable specimen types are digested and decontaminated clinical specimens (except urine) and sterile body fluids (except blood). Additionally, these tubes can also be used for antimicrobial susceptibility testing of mycobacteria, including SIRE and PZA testing. BD BBL™ MGIT™ tubes should be stored between 2-25° C.
245124	1 kit	BD BACTEC™ MGIT™ 960/320 - Supplement Kit
		The kit includes 6 vials of lyophilised BBL™ MGIT™ PANTA™ Antibiotic Mixture and 6 vials of 15 ml BD BACTEC™ MGIT™ 960/320 Growth Supplement. The BD BACTEC™ MGIT™ Growth Supplement contains Middlebrook OADC enrichment (Oleic acid, Bovine albumin, Dextrose, Catalase and Polyoxyethylene stearate [POES]). The BBL™ MGIT™ PANTA™ Antibiotic Mixture contains Polymyxin B, Amphotericin B, Nalidixic acid, Trimethoprim and Azlocillin. The Supplement Kit should be stored between 2-25° C and is sufficient for approximately 100 tests.



## BD BACTEC™ MGIT™ AST Accessories

CAT. NO. SIZE DESCRIPTION

445941	1 kit	BD BACTEC™ MGIT™ 960/320 - AST Starter Kit
		Includes: <ul style="list-style-type: none"> <li>• User Manual</li> <li>• Quick reference guide</li> <li>• 2 x Transport rack</li> <li>• 16 x 5-tube AST Set carrier</li> <li>• 16 x 2-tube AST Set carrier</li> <li>• 3 x 3-tube AST Set carrier</li> <li>• 3 x 4-tube AST Set carrier and</li> <li>• 3 x 8-tube AST Set carrier</li> </ul>
445874	500	BD BACTEC™ MGIT™ 960/320 - 7 ml tube Spare Barcode Labels
445943	3 pack	BD BACTEC™ MGIT™ 960/320 - AST Carrier Sets (5-tube)
445944	3 pack	BD BACTEC™ MGIT™ 960/320 - AST Carrier Sets (4-tube)
445945	3 pack	BD BACTEC™ MGIT™ 960/320 - AST Carrier Sets (3-tube)
445946	3 pack	BD BACTEC™ MGIT™ 960/320 - AST Carrier Sets (2-tube)
445993	3 pack	BD BACTEC™ MGIT™ 960/320 - AST Carrier Sets (8-tube)



## BD BACTEC™ MGIT™ AST Drugs, Media & Kits

CAT. NO. SIZE DESCRIPTION

245123	1 kit	BD BACTEC™ MGIT™ 960/320 - SIRE Kit
		The BD BACTEC™ MGIT™ 960/320 SIRE Kit is a rapid qualitative procedure for susceptibility testing of <i>Mycobacterium tuberculosis</i> , from culture, to streptomycin (STR), isoniazid (INH), rifampin (RIF) and ethambutol (EMB). Carton of 4 lyophilised drug vials, and 8 SIRE Supplements.
245157	1 kit	BD BACTEC™ MGIT™ 960/320 - IR Kit
		The BD BACTEC™ MGIT™ 960/320 IR Kit is used for susceptibility testing of <i>Mycobacterium tuberculosis</i> in culture to the critical concentrations of isoniazid and rifampin (IR) in a qualitative test. Carton of 1 vial of each lyophilized antimicrobial (I, R) and 4 vials of SIRE Supplement.
245125	1 kit	BD BACTEC™ MGIT™ 960/320 - STR 4.0 Kit
		The STR (Streptomycin) 4.0 Test Kit is intended for the susceptibility testing of <i>M. tuberculosis</i> to MOP (Method of Proportion) high concentration of streptomycin (4.0 µg/ml). Carton of 1 lyophilised drug vial and 2 SIRE Supplements.
245126	1 kit	BD BACTEC™ MGIT™ 960/320 - INH 0.4 Kit
		The INH (Isoniazid) 0.4 Test Kit is intended for the susceptibility testing of <i>M. tuberculosis</i> to MOP (Method of Proportion) high concentration of isoniazid (0.4 µg/ml). Carton of 1 lyophilised drug vial and 2 SIRE supplements.
245127	1 kit	BD BACTEC™ MGIT™ 960/320 - EMB 7.5 Kit
		The EMB (Ethambutol) 7.5 Test Kit is intended for the susceptibility testing of <i>M. tuberculosis</i> to MOP (Method of Proportion) high concentration of ethambutol (7.5 µg/ml). Carton of 1 lyophilised drug vial and 2 SIRE supplements.
245128	1 kit	BD BACTEC™ MGIT™ 960/320 - PZA Kit
		The BD BACTEC™ MGIT™ 960/320 PZA Kit is used for susceptibility testing of <i>Mycobacterium tuberculosis</i> in culture to pyrazinamide (PZA) in a qualitative test lasting 4-17 days. The Kit contains 2 vials of lyophilised antimicrobial and 6 vials of SIRE Supplement. PZA must be reconstituted with 2.5 ml of sterile/deionized water before addition to BBL™ MGIT™ tubes. Carton of 2 lyophilised vials and 6 PZA Supplements, sufficient for 50 tests.
245115	25 tubes	BD BACTEC™ MGIT™ 960/320 - PZA Medium
		The BD BACTEC™ MGIT™ 960/320 PZA Medium is a tube containing modified Middlebrook 7H9 Broth with a reduced pH of 5.9 and is to be used for susceptibility testing of <i>Mycobacterium tuberculosis</i> .



# MTB Complex / Non-MTB Complex Assay

## MTB Complex / Non-MTB Complex Assay

CAT. NO.	SIZE	DESCRIPTION
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245159	25 tests	TBc Identification Test
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The BD MGIT™ TBc Identification Test (TBc ID) is a rapid chromatographic immunoassay for the qualitative detection of *Mycobacterium tuberculosis* complex (MTbc) antigen from AFB smear-positive BD MGIT™ tubes. The device will detect the following species of the MTbc: *M. tuberculosis*, *M. bovis*, *M. africanum*, and *M. microti*.





# Collection & Transport Systems



## **BD Difco™ Inoculation Loops & Needles**

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## **BD Specimen Collection & Transport Systems**

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BD Collection and Transport products are used for the collection and transport of specimens to the laboratory for recovery of organisms present in the specimens. For over 60 years BD has remained the trusted leader in specimen collection and transport, instilling the care and quality in our products that both patients and clinicians who rely on us have come to expect.

As a result, nearly 90% of all microbiology labs choose BD Collection and Transport products for their needs.



# Collection & Transport Systems

## BD Difco™ Inoculation Loops & Needles

### BD Difco™ Inoculation Loops & Needles

*Sterile, disposable inoculating loops & needles do not require flaming. Made from a unique plastic resin for controlled flexibility. They resist cutting the agar surface yet provide sufficient firmness to pick stubborn colonies. Color coded.*

**CAT. NO.      SIZE      DESCRIPTION**

220214	250	Sterile disposable Inoculating Loops - 1 µl (Light Green)
220215	1000	Sterile disposable Inoculating Loops - 1 µl (Light Green)
220216	250	Sterile disposable Inoculating Loops - 10 µl (Light Blue)
220217	1000	Sterile disposable Inoculating Loops - 10 µl (Light Blue)
220218	1000	Sterile disposable Inoculating Needles - 1 µl (Violet)



## BD Specimen Collection & Transport Systems

### BD Falcon™ Sputum Collection System

*Engineered for safer sputum collection, transport and handling. This patented system has been engineered to help protect healthcare workers from accidental exposure to contagious specimens. The specimen is collected directly into a shatter-resistant conical Falcon™ tube, then a protective flap seals off the collection end. The unique hinged design allows for a screw cap to be tightened over the specimen tube without the clinician touching the cap or the collection end of the tube.*

**CAT. NO.      SIZE      DESCRIPTION**

290020	72	Falcon™ Sputum Collection System
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### BD BBL™ CultureSwab™ Collection & Transport Swabs

*Designed for Collection and Transport of Aerobes. These swabs are ideal for Gram staining procedures because of minimal interference or dilution from the transport medium. Each CultureSwab™ comprises a sterile peel-pouch containing a rayon-tipped swab applicator used to collect the sample and a tube containing transport medium into which the swab is placed after sampling. The transport media are non-nutritious, buffered with phosphate and provide a reduced environment due to their formulation with sodium thioglycollate.*

**CAT. NO.      SIZE      DESCRIPTION**

220093	50	CultureSwab™ - Liquid Amies, Single Swab
220099	50	CultureSwab™ - Liquid Stuart, Single Swab

For throat, vaginal, skin and wound specimens.

220097	50	CultureSwab™ - Cary-Blair Agar, Single Swab
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For faecal specimens, fastidious organisms and enteric pathogens.

220115	100	CultureSwab™ - Sterile, Single Swab without medium
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For general specimens & general laboratory use.



## BD BBL™ CultureSwab™ EZ Collection & Transport Swabs

*Media-free Aerobic Transport.*

*The BBL CultureSwab™ EZ and CultureSwab™ EZ II collection and transport systems are simple to use and media-free. The patented polyurethane swab utilises a special polyurethane open-celled structure that protects and releases organisms from their own environment. Like a sponge, the open pores pick up the organisms from their environment and protects them in a state of homeostasis during transport. The medium-free nature of the system prevents specimen dilution and nonviable organisms that can be present with devices containing transport media..*

CAT. NO.	SIZE	DESCRIPTION
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220144	100	CultureSwab™ EZ - Single Swab
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220145	100	CultureSwab™ EZ II - Double Swab
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## BD BBL™ CultureSwab™ Plus Collection & Transport Swabs

*The BBL CultureSwab™ Plus Collection and Transport System features Amies Agar gel media with oxygen-scavenging agents, for sampling of both aerobic and anaerobic organisms.*

CAT. NO.	SIZE	DESCRIPTION
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220116	50	BD CultureSwab™ PLUS - Amies Gel without Charcoal, Single Swab
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For throat, vaginal, skin and wound specimens. Contains a sterile polyurethane foam single swab with Amies gel but no charcoal. Single swab with plastic shaft.

220121	50	BD CultureSwab™ PLUS - Amies Gel with Charcoal, Single Swab
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For throat, urogenital and wound specimens. Single swab with plastic shaft.



## BD Falcon™ SWUBE™ Collection and Transport Swabs

*A simple, flexible and effective way to collect, transport, protect and store specimens. Provided without media to enable dry sample transport, or alternatively can be used with your own reagents, media or solutions.*

CAT. NO.	SIZE	DESCRIPTION
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220210	200	SWUBE™ - Single cotton swab, screw cap
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220710	200	SWUBE™ - Single polyester swab, screw cap
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220690	1000	SWUBE™ - Single polyester swab, screw cap
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220090	200	SWUBE™ - Single cotton swab, friction cap
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281130	200	SWUBE™ - Dual cotton swab, screw cap
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# Microbiological Culture Media



## BD Manual of Microbiological Culture Media

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BD offers media with a proven record of performance backed by over 180 years of combined BD Difco™ and BD BBL™ expertise bringing to the microbiology laboratory the highest levels of quality and performance.

High quality media evolves because of countless refinements over time, undertaken to create the perfect blend. BD has refined research, manufacturing and quality control processes to achieve the top performing formulations and the highest standards.

Each and every day we continue to build on this knowledge and understanding and we make sure that our experience and expertise reaches you.

# Microbiological Culture Media



## BD Manual of Microbiological Culture Media

### BD Difco™ & BBL™ Manual

CAT. NO.	SIZE	DESCRIPTION
220225	1	BD Difco™ & BBL™ Manual, 2nd Edition "Manual of Microbiological Culture Media"

The second edition of the combined Difco™ & BBL™ Manual continues the history of excellence in providing microbiologists worldwide with technical and product information on Difco and BBL brand media. The manual, which replaces the Difco Manual and the Manual of BBL Products and Laboratory Procedures, is a comprehensive guide to the BD line of Difco and BBL media including dehydrated culture media and prepared media formats.

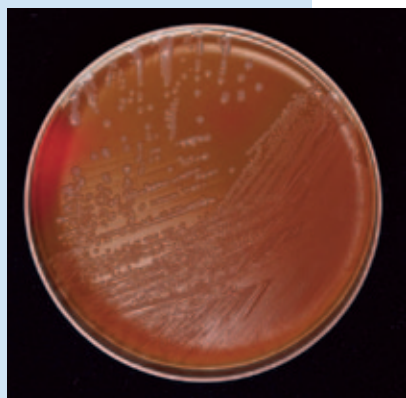
Highlights of the Manual include:

- Detailed information on Media: ingredients, growth requirements, sterilization, QC organisms
- Product Description: media formulation, relevant information concerning the history, ingredients and usage of each medium
- Recommendation of Media for specific groups of microorganisms: antimicrobial effectiveness testing, selection guides for several applications (food, water, environmental, veterinary)
- An interactive CD with advanced search feature

And in addition, over 400 color photographs that clearly depict colonial morphology and other pertinent characteristics such as hemolysis and color reactions.

## BD BBL™ Prepared Plated Media (PPM) - 90 mm Plates

### Enrichment Media



CAT. NO.	SIZE	DESCRIPTION
254053	20 plates	BD Trypticase™ Soy Agar with 5 % Sheep Blood (TSA II)

A nutritious general purpose medium for the isolation and cultivation of nonfastidious and fastidious microorganisms from a variety of clinical and nonclinical materials and the detection of hemolytic reactions. A new formulation results in much clearer beta hemolysis of beta hemolytic streptococci, improved beta hemolysis of *Staphylococcus aureus* and other beta hemolytic staphylococci, and enhanced growth of other bacteria.

254051	20 plates	BD Trypticase™ Soy Agar
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General purpose media which support the growth of nonfastidious as well as moderately fastidious microorganisms. Not the medium of choice for fastidious anaerobes.

254005	20 plates	Columbia Agar with 5 % Sheep Blood
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A highly nutritious general purpose medium for the isolation and cultivation of nonfastidious and fastidious microorganisms from a variety of clinical and nonclinical materials. It derives its superior growth-supporting properties from the combination of two peptones, and yeast extract as a supplier of the B complex vitamins.

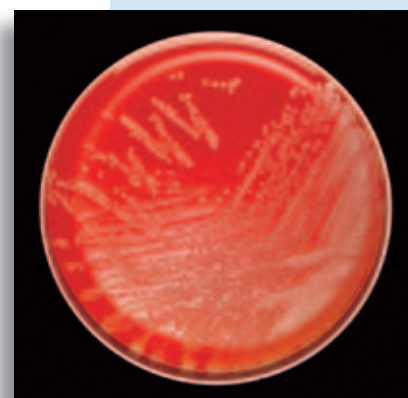


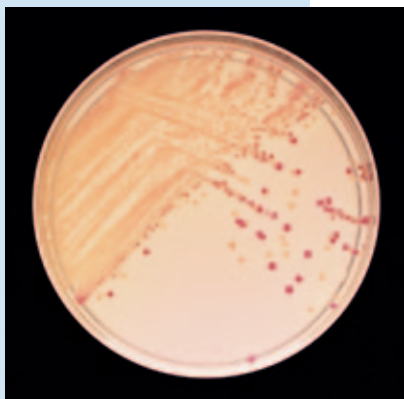
254097	20 plates	Columbia III Agar with 5 % Sheep Blood	A highly nutritious general purpose medium for the isolation and cultivation of nonfastidious and fastidious microorganisms from a variety of clinical and nonclinical material. It is more nutritious than Columbia Agar with 5% Sheep Blood. Selected proprietary growth factors have been added that enhance the beta hemolysis, especially of streptococci.
254060	20 plates	Chocolate Agar (GC II Agar with BD IsoVitalX™)	A non-selective medium for the isolation and cultivation of fastidious microorganisms, especially <i>Neisseria</i> and <i>Haemophilus</i> species, from a variety of clinical specimens.
254039	20 plates	Sabouraud Glucose Agar	For cultivation of pathogenic and nonpathogenic fungi, particularly dermatophytes.



## Selective Media

CAT. NO.	SIZE	DESCRIPTION
254003	20 plates	CLED Agar (Cystine-Lactose-Electrolyte-Deficient Agar)
		A differential culture medium for use in enumerating bacteria in urine. It supports the growth of urinary pathogens and contaminants but prevents undue swarming of <i>Proteus</i> species due to its lack of electrolytes.
254046	20 plates	Chocolate Agar with BD IsoVitalX™ and Bacitracin
		A selective media for the isolation of <i>Haemophilus</i> species, especially <i>H. influenzae</i> from clinical specimens.
254007	20 plates	Columbia CNA Agar with 5 % Sheep Blood
		A selective and differential medium used used for the isolation of gram-positive microorganisms from clinical and nonclinical materials.
254019	20 plates	BD Enterococcosel™ Agar
		A selective medium for the detection and enumeration of fecal enterococci from clinical and nonclinical specimens. In addition, staphylococci, other enterococci and <i>Listeria monocytogenes</i> grow on this medium.
257079	20 plates	Group B Streptococcus Differential Agar
		This Agar is used for the isolation and identification of <i>Streptococcus agalactiae</i> (Group B Streptococcus) from clinical specimens.
254025	20 plates	MacConkey II Agar
		A slightly selective and differential medium for the detection of coliform organisms and enteric pathogens. It is only slightly selective since the concentration of bile salts, which inhibit gram-positive microorganisms, is low in comparison with other enteric plating media. Crystal violet also is included in the medium to inhibit the growth of gram-positive bacteria, especially enterococci and staphylococci.
254029	20 plates	Martin-Lewis Agar, Modified
		An enriched medium for the selective isolation of <i>Neisseria gonorrhoeae</i> and <i>N. meningitidis</i> from clinical specimens containing mixed flora of bacteria and fungi.
254091	20 plates	Sabouraud Agar with Chloramphenicol
		A selective medium for the isolation of pathogenic fungi that exhibit inhibition of bacteria and saprophytic fungi.





254047 20 plates Salmonella Shigella Agar (SS Agar)

A differential selective medium for the isolation of pathogenic enteric bacilli, especially those belonging to the genus *Salmonella*. This medium is not recommended for the primary isolation of *Shigella*.

254042 20 plates Schaedler Agar with Vitamin K1 and 5 % Sheep Blood

A highly nutritious medium for the isolation and cultivation of fastidious anaerobic microorganisms. It is especially useful for the recovery of the fastidious anaerobic bacteria such as *Bacteroides*, *Prevotella* and *Porphyromonas* species.

## Antimicrobial Susceptibility Testing (AST) Media

CAT. NO. SIZE DESCRIPTION

254030 20 plates Mueller Hinton Agar with 5 % Sheep Blood

Recommended by CLSI (Clinical and Laboratory Standards Institute) for disc diffusion susceptibility testing of *Streptococcus pneumoniae* and other streptococci.

254032 20 plates Mueller Hinton II Agar

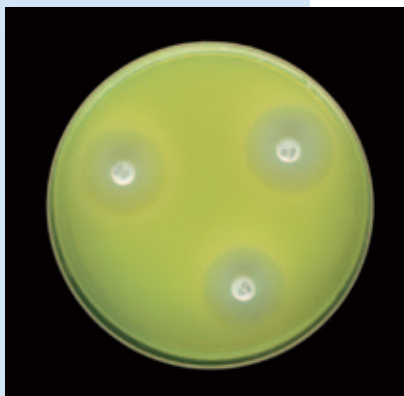
Recommended by CLSI (Clinical and Laboratory Standards Institute) for disc diffusion susceptibility testing of rapidly-growing aerobic organisms.

254060 20 plates Chocolate Agar (GC II Agar with BD IsoVitalX™)

Recommended by CLSI (Clinical and Laboratory Standards Institute) for disc diffusion susceptibility testing of *Neisseria gonorrhoeae*. This medium is prepared with a chemically defined supplement developed specially to aid the growth of gonococci.

254058 20 plates Haemophilus Test Medium Agar

Recommended by CLSI (Clinical and Laboratory Standards Institute) for disc diffusion susceptibility testing of *Haemophilus influenzae* and related species.



## BD CHROMagar™ Media

An advanced microbiological testing media that enable, in a single step, the isolation and differentiation of pathogenic micro-organisms by colony colors.

These media include a chromogen mix that consists of substrates (chromogens) that release differently colored compounds upon degradation by specific microbial enzymes, thus assuring the direct differentiation of certain species or the detection of certain groups of organisms with only a minimum of confirmatory tests.

CAT. NO. SIZE DESCRIPTION

257480 20 plates BD CHROMagar™ Candida

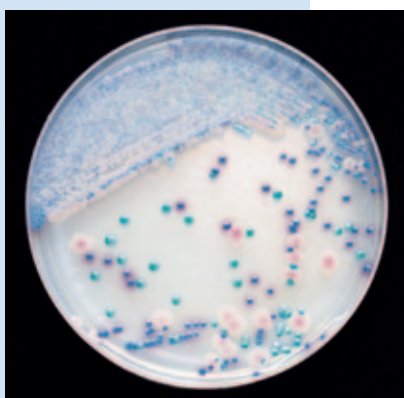
For the isolation and differentiation of *Candida albicans*, *C. tropicalis* and *C. krusei*. Due to the differences in morphology and colors of the yeast colonies, this medium facilitates the detection of mixed yeast cultures in specimens. It may also be used as a selective isolation medium for other yeasts and for filamentous fungi.

257434 20 plates BD CHROMagar™ MRSA II

A selective and differential medium for the direct detection of methicillin-resistant *Staphylococcus aureus* (MRSA) from clinical specimens. The test can be performed on respiratory (e.g., nares, throat and sputum), lower gastrointestinal (GI) (e.g., rectal and stool), skin (e.g., groin/axilla and perineum/perianal), and wound specimens, and positive blood culture bottles containing grampositive cocci.

257481 20 plates BD CHROMagar™ Orientation

A non-selective medium for the direct identification, differentiation and enumeration of urinary tract pathogens.



254104	20 plates	BD CHROMagar™ Salmonella	A selective differential medium for the isolation and presumptive identification of <i>Salmonella</i> directly from stool specimens and from enrichments such as Selenite broth. It may also be used for the isolation of <i>Salmonella</i> from specimens other than feces such as food and water.
257074	20 plates	BD CHROMagar™ Staph aureus	A selective differential medium for the isolation and identification of <i>Staphylococcus aureus</i> without the use of confirmatory testing from clinical sources.

## BD BBL™ Prepared Tubed Media (PTM)

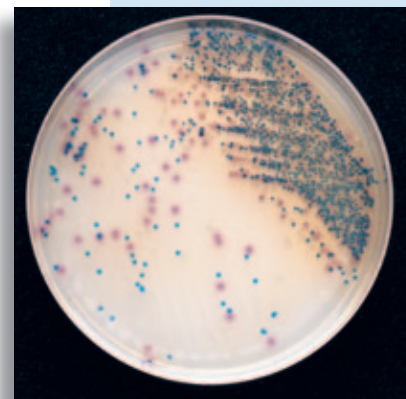
For mycobacteria media please refer to Chapter Mycobacteria Testing Systems.

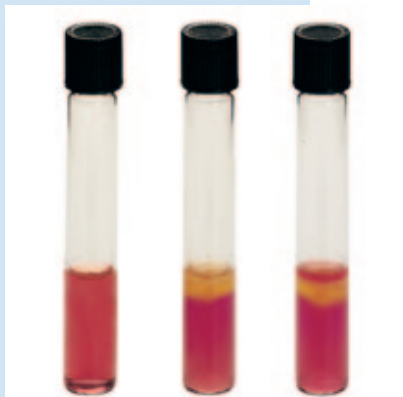
### Enrichment Media

CAT. NO.	SIZE	DESCRIPTION
221669	10 x 5 ml	Nutrient Broth  For the cultivation of many species of nonfastidious microorganisms. Tube size K: 16.5 x 102 mm.
221788	100 x 8 ml	Thioglycollate Medium, Enriched with Vitamin K1 and Hemin  A general-purpose media used in qualitative procedures for the cultivation of fastidious, as well as nonfastidious microorganisms, including aerobic and anaerobic bacteria, from a variety of clinical and nonclinical specimens. Tube size K: 16.5 x 102 mm.
220837	100 x 8 ml	Brain Heart Infusion Broth  Brain Heart Infusion (BHI) is a general-purpose liquid medium used in the cultivation of fastidious and nonfastidious microorganisms, including aerobic and anaerobic bacteria, from a variety of clinical and nonclinical materials. Tube size K: 16.5 x 102 mm.
221093	100 x 8 ml	BD Trypticase™ Soy Broth  A general-purpose medium used in qualitative procedures for the cultivation of fastidious and nonfastidious microorganisms from a variety of clinical and nonclinical specimens. Tube size K: 16.5 x 102 mm.
221819	100 x 5ml	Saline, Normal  Used in procedures that require the use of an isotonic diluent. It is routinely used as a diluent to adjust the turbidity of bacterial cell suspensions to help maintain cell integrity and viability. Tube size K: 16.5 x 102 mm.
297808	100 x 1,5 ml	BD Trypticase™ Soy Broth with 20 % Glycerol  For Stock Culture Preservation. Tube size K: 16.5 x 102 mm.

### Selective Media

CAT. NO.	SIZE	DESCRIPTION
220897	100 slants	Kligler Iron Agar  For the differentiation of members of the <i>Enterobacteriaceae</i> family based on of their ability to ferment dextrose and lactose and to liberate sulfides. Specimen Type: Fecal Specimens. Tube size K: 16.5 x 102 mm.
221021	100 x 8 ml	Selenite-F Broth  Used as an enrichment medium for the isolation of <i>Salmonella</i> and some species of <i>Shigella</i> from fecal, urine, water, and food samples. Tube size K: 16.5 x 102 mm.





221785	10 tubes	Brain Heart Infusion with 6,5 % Sodium Chloride
To differentiate the enterococci (e.g., <i>E. faecalis</i> , <i>E. faecium</i> , <i>E. durans</i> , and <i>E. avium</i> ) from the nonenterococcal species ( <i>S. bovis</i> and <i>S. equinus</i> ) by the 6.5% salt tolerance test. Tube size K: 16.5 x 102 mm.		
296266	100 x 5 ml	LIM Broth (Todd Hewitt with CNA)
For the selective enrichment of group B streptococci ( <i>Streptococcus agalactiae</i> ), especially from genital specimens. Tube size K: 16.5 x 102 mm.		
220953	100 slants	Lysine Iron Agar
Used for the differentiation of enteric organisms based on their ability to decarboxylate or deaminate lysine and to form hydrogen sulfide. Tube size K: 16.5 x 102 mm.		

## BD Difco™ & BBL™ Dehydrated Culture Media (DCM)

### Culture Media

For mycobacteria media please refer to Chapter Mycobacteria Testing Systems

CAT. NO.	SIZE	DESCRIPTION
214010	454 g	Agar (Purified)
Purified Agar in which extraneous matter, pigmented portions and salts are reduced to a minimum. Used for the determination of motility and the growth of anaerobes and microaerophiles		
237500	500 g	Brain Heart Infusion
BHI is a general-purpose medium used in the cultivation of fastidious and non-fastidious microorganisms, including aerobic and anaerobic bacteria, from a variety of clinical and nonclinical materials		
211037	500 g	Blood Agar Base
Infusion medium for isolation and cultivation of a wide variety of microorganisms. Can be used with added blood for cultivation of fastidious microorganisms and hemolytic activity of streptococci.		
211102	500 g	Cary and Blair Transport Medium
Used for collecting, transporting and preserving microbiological specimens, particularly those containing <i>Vibrio cholerae</i> .		
212218	500 g	CLED Agar
Cystine Lactose-Electrolyte-Deficient Agar. Used for the cultivation of bacteria from urine and for the differentiation of lactose-positive and lactose-negative microorganisms.		
212104	500 g	Columbia CNA Agar
Used with blood for the selective isolation of gram positive cocci; contains Colistine and Nalidixic Acid.		
285340	500 g	Hektoen Enteric Agar
A moderately selective medium used in qualitative procedures for the isolation and cultivation of gram-negative enteric microorganisms, especially <i>Shigella</i> , from a variety of clinical and nonclinical specimens.		
212123	500 g	MacConkey Agar
For differential isolation of enteric bacilli based on lactose fermentation.		
211407	500 g	Mannitol Salt Agar
Used for the selective isolation and enumeration of staphylococci from clinical and nonclinical materials.		

211438	500 g	Mueller Hinton II Agar	For use in quantitative procedures for susceptibility testing of rapidly-growing aerobic and facultatively anaerobic bacteria isolated from clinical specimens. It is formulated to have a low thymine and thymidine content and is adjusted to the calcium and magnesium ion concentrations recommended by CLSI.
210950	500 g	Sabouraud Dextrose Agar	Cultivation of pathogenic and nonpathogenic fungi, particularly dermatophytes. The medium is rendered more selective for fungi by the addition of antimicrobics.
211597	500 g	Salmonella Shigella Agar	SS Agar. Differentially selective medium for the isolation of pathogenic enteric bacilli, especially those belonging to the genus <i>Salmonella</i> . Not recommended for the primary isolation of <i>Shigella</i> .
265020	500 g	TCBS Agar	Thiosulfate Citrate Bile Salts Sucrose Agar (TCBS Agar) is used for the selective isolation of <i>cholera vibrios</i> and <i>Vibrio parahaemolyticus</i> from a variety of clinical and nonclinical specimens.
236950	500 g	Tryptic Soy Agar	Cultivation and isolation of a variety of fastidious and nonfastidious organisms. Use with blood in determining hemolytic reactions.
211825	500 g	Tryptic Soy Broth	General purpose medium for the cultivation of fastidious and nonfastidious microorganisms from a variety of clinical and non clinical specimens.
278850	500 g	XLD Agar	Xylose Lysine Desoxycholate Agar. Selective differential medium for the isolation of gram negative enteric bacilli, especially <i>Shigella</i> and <i>Providencia</i> .



## Ingredients

CAT. NO.	SIZE	DESCRIPTION
211875	5x2ml	BD IsoVitalEx™ Enrichment
211876	5x10ml	Chemically defined supplement used as an additive to media for the isolation and cultivation of nutritionally fastidious microorganisms, particularly <i>Neisseria gonorrhoeae</i> and <i>Haemophilus influenzae</i> .
212392	500 g	Hemoglobin, Bovine (Freeze-Dried) Used for preparing microbiological culture media.
211874	10x100ml	Hemoglobin Solution (2 %) Ready for use in the preparation of media for the cultivation of fastidious organisms.
212228	10x10ml	V-C-N Inhibitor Antibiotic mixture of vancomycin, colistin and nystatin that permits the selective isolation of <i>Neisseria gonorrhoeae</i> and <i>N. meningitidis</i> from culture media.





# Direct Testing Systems & Serology



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# Direct Testing Systems & Serology

## BD Chromatographic Immunoassays

### BD Directigen™ Meningitis Test Kits

CAT. NO.	SIZE	DESCRIPTION
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252360	30 tests	BD Directigen™ - Meningitis Combo Test Kit
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BD Directigen™ Meningitis Combo Test is a presumptive latex agglutination test for the direct qualitative detection of antigens to *H. influenzae* type b, *S. pneumoniae*, Group B streptococcus, *N. meningitidis* Groups A, B, C, Y or W135, and *Escherichia coli* K1 in cerebrospinal fluid (CSF), serum, urine or blood culture media. In addition, the test kit provides confirmation and serogrouping capabilities from suspected colonies of *H. influenzae* type b, *S. pneumoniae*, Group B streptococcus, and *N. meningitidis* Groups A/Y, B or C/W135. Visible agglutination occurs when a sample containing any of these bacterial antigens reacts with the respective antibody-coated latex beads.

30 patient tests, 60 controls - 90 determinations containing:

- one 9 ml bottle Positive Control
- one 9 ml bottle Negative Control
- one 1 ml bottle *H. influenzae* type b antibody, Reagent 1
- one 1 ml bottle *S. pneumoniae* antibody, Reagent 2
- one 1 ml bottle Group B streptococcus antibody, Reagent 3
- one 1 ml bottle *N. meningitidis* Groups C and W135 antibody, Reagent 4
- one 1 ml bottle *N. meningitidis* Groups A and Y antibody, Reagent 5
- one 1 ml bottle *N. meningitidis* Group B/E. *coli* K1 antibody, Reagent 6
- one 8 ml bottle Specimen B one 0.5 mL bottle control latex Reagent A (rabbit)
- one 0.5 ml bottle control latex Reagent B (mouse) 30 single use test cards
- plastic stirrers, workstation and procedure chart



### BD Directigen™ EZ Respiratory Syncytial Virus (RSV) Test Kits

CAT. NO.	SIZE	DESCRIPTION
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256030	30 tests	BD Directigen™ EZ - RSV Test Kit
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The BD Directigen™ EZ RSV test is a rapid chromatographic immunoassay for the direct and qualitative detection of Respiratory Syncytial Virus (RSV) antigen in naso-pharyngeal washes, naso-pharyngeal aspirates, naso-pharyngeal swabs and naso-pharyngeal swab/washes from patients suspected of having a viral respiratory infection. This test is intended for *in vitro* diagnostic use to aid in the diagnosis of Respiratory Syncytial Virus (RSV) infections in neonatal and paediatric patients under the age of 20. It is recommended that negative test results be confirmed by cell culture. (30 tests ) containing:

- one 4.5 ml bottle Extraction Reagent E
- one 2.0 ml bottle Positive Control
- one 2.0 ml bottle Negative Control
- 30 BD Directigen™ EZ RSV Devices
- each 30 BD DispensTube™ Tubes and BD DispensTube™ Tips



## BD Directigen™ EZ Influenza Test Kits

CAT. NO.      SIZE      DESCRIPTION

256050      30 tests      BD Directigen™ EZ - Flu A+B Test Kit

Simpler workflow - two step lateral flow process enhanced by proprietary reagents. Easily performed and interpreted by non-laboratory personnel, with results in less than 15 minutes.

(30 tests ) containing:

- one 4.5 ml bottle Extraction Reagent
- one 2.0 ml bottle Positive Control
- one 2.0 ml bottle Negative Control
- 30 BD Directigen™ EZ Flu A + B Devices
- each 30 BD DispensTube™ Tubes and BD DispensTube™ Tips



## BD Latex Test Kits

### BD Streptococcus Tests

CAT. NO.      SIZE      DESCRIPTION

240950      50 tests      BD Streptocard™ - Enzyme Latex Test Kit

Used for identification of Lancefield streptococcal groups A, B, C, F and G from streptococcus colonies that are β-haemolytic and non-haemolytic. The BD Streptocard™ Enzyme Latex Test latex particles are sensitised with group specific antibodies and will agglutinate in the presence of homologous antigen. In the absence of such antigen, the latex particles will remain in a smooth suspension. The use of a patented enzymatic extraction in the BD Streptocard™ Enzyme Latex Test procedure considerably shortens the time required for antigen extraction and improves the antigen yield. Test Latex A, B, C, D, F and G consist of blue latex particles sensitised with rabbit antibody to appropriate group specific antigen, suspended in buffer containing 0.1% sodium azide (preservative). Contains reagents for 50 tests.



### BD Staphyloslide™ Staphylococcus aureus Tests

CAT. NO.      SIZE      DESCRIPTION

240952      100 tests      BD Staphyloslide™ - Latex Test Kit

The BD Staphyloslide™ Latex Test is a latex slide agglutination test for the differentiation of staphylococci which possess clumping factor and/or Protein A, usually present with *Staphylococcus aureus*, from staphylococci that do not possess these properties.



### BD Pneumoslide™ Streptococcus pneumoniae Test Kit

CAT. NO.      SIZE      DESCRIPTION

240840      50 tests      BD Pneumoslide™ - Test for Streptococcus pneumoniae

Consists of one 2.5 ml vial with dropper of BD Pneumoslide™ S. pneumoniae Antibody-Coated Latex Bead Suspension, one vial, Lyophilized (restores to 0.5 ml), BD Pneumoslide™ Polyvalent Positive Control, one 2.5 ml vial with dropper, BD Pneumoslide™ Latex Negative Control, 50 Stirring Sticks and one Glass Slide.

## Syphilis Testing



### BD Macro-Vue™ RPR Kit

CAT. NO.	SIZE	DESCRIPTION
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275005	500 tests	BD Macro-Vue™ RPR - Card Test Kit No. 110
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Nontreponemal testing procedure for the serological detection of syphilis. (500 qualitative tests) containing:

- 3 x 3 ml ampules antigen
- 20 G dispensing needle
- antigen dispensing bottle
- 50 cards with 10 x 18 mm circle spots each
- BD Dispensstirs™ devices, 0.05 ml delivery

### BD Macro-Vue™ RPR Control

CAT. NO.	SIZE	DESCRIPTION
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276909	1	BD Macro-Vue™ RPR - Liquid Controls
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BD Macro-Vue™ RPR (Rapid Plasma Reagin) Card Test Liquid Controls are designed as an unassayed control material to monitor, at three reaction levels, the precision of BD Macro-Vue™ RPR 18 mm Circle Card Test. RPR Test Reagents should be routinely tested for patterns of graded reactivity against controls with established patterns of reactivity. Contains pooled human serum with 0.1% sodium azide as a preservative.

Control ++, 1.5 ml BD Macro-Vue™ RPR Card Test Reactive Control Serum Positive. Control +, 1.5 ml BD Macro-Vue™ RPR Card Test Moderately Reactive Control Serum Weakly Positive.

Control -, 1.5 ml BD Macro-Vue™ RPR Card Test Negative Control Serum Negative Control.



## Coagulase Testing

### BD Coagulase Plasma

CAT. NO.	SIZE	DESCRIPTION
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240658	10 x 3 ml	Coagulase Plasma
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240661	10 x 15 ml	Used to qualitatively determine the pathogenicity of staphylococci using the direct tube method. Coagulase Plasma, Rabbit is lyophilised rabbit plasma with 0.85% sodium citrate and 0.85% sodium chloride, approximately. Reconstitutes to 3 ml, 15 ml or 25 ml for the Direct Tube Method.
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240827	10 x 3 ml	Coagulase Plasma with EDTA
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240826	10 x 15 ml	Used to qualitatively determine the pathogenicity of staphylococci using the direct tube method. Coagulase Plasma, Rabbit with EDTA is lyophilised rabbit plasma with 0.15% EDTA (ethylenediaminetetraacetic acid) and 0.85% sodium chloride, approximately. Reconstitutes to 3 ml, 15 ml or 25 ml for the Direct Tube Method.
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# Antisera

## Bordetella Antisera, Lyophilised

Lyophilised, polyclonal rabbit antisera containing approximately 0.04% thimerosal as a preservative. When rehydrated and used as described, each vial of Difco™ Bordetella Pertussis and Difco™ Bordetella Parapertussis antisera diluted 1:10 contains sufficient reagent for approximately 200 slide tests.

CAT. NO.	SIZE	DESCRIPTION
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223101	1 ml	<i>Bordetella parapertussis</i> Antiserum (For Slide Agglutination)
223091	1 ml	<i>Bordetella pertussis</i> Antiserum (For Slide Agglutination)

## Escherichia coli Antisera, Lyophilised

Lyophilised, polyclonal rabbit antisera containing approximately 0.04% thimerosal as a preservative, used for identifying *Escherichia coli* O157:H7.

CAT. NO.	SIZE	DESCRIPTION
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221591	3 ml	<i>E. coli</i> H Antiserum H7
229701	3 ml	<i>E. coli</i> O Antiserum O157

## Haemophilus influenzae Antisera, Lyophilised

Lyophilised, polyclonal rabbit antisera containing approximately 0.02% thimerosal as a preservative. When properly rehydrated, each vial contains sufficient reagent for 20 slide tests.

CAT. NO.	SIZE	DESCRIPTION
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222371	1 ml	<i>Haemophilus influenzae</i> Antiserum Poly
222501	1 ml	<i>Haemophilus influenzae</i> Antiserum Type a
222361	1 ml	<i>Haemophilus influenzae</i> Antiserum Type b
227891	1 ml	<i>Haemophilus influenzae</i> Antiserum Type c
227901	1 ml	<i>Haemophilus influenzae</i> Antiserum Type d
227911	1 ml	<i>Haemophilus influenzae</i> Antiserum Type e
227921	1 ml	<i>Haemophilus influenzae</i> Antiserum Type f

## Listeria Antisera, Lyophilised

Lyophilised, polyclonal rabbit antisera containing approximately 0.04% Thimerosal as a preservative. *Listeria O* Antisera Types 1 and 4 are specific for the respective serotypes of *L. monocytogenes* while *Listeria O* Antiserum Poly contains agglutinins for *L. monocytogenes* serotypes 1 and 4. When used according to the recommended procedure, each 1 ml vial contains sufficient reagent for 10 tube tests or 400 slide tests.

CAT. NO.	SIZE	DESCRIPTION
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223021	1 ml	<i>Listeria O</i> Antiserum Poly Types 1 & 4
223001	1 ml	<i>Listeria O</i> Antiserum Type 1
223011	1 ml	<i>Listeria O</i> Antiserum Type 4



## Neisseria meningitidis Antisera, Lyophilised

Lyophilised, polyclonal rabbit antisera containing approximately 0.02% thimerosal as a preservative. When properly rehydrated and used as recommended each vial of Difco™ Neisseria Meningitidis Antiserum is sufficient reagent for 20 slide tests.

**CAT. NO.      SIZE      DESCRIPTION**

222281	1 ml	Neisseria meningitidis Antiserum Group A
222291	1 ml	Neisseria meningitidis Antiserum Group B
222301	1 ml	Neisseria meningitidis Antiserum Group C
222311	1 ml	Neisseria meningitidis Antiserum Group D
222531	1 ml	Neisseria meningitidis Antiserum Group W135
228801	1 ml	Neisseria meningitidis Antiserum Group X
228811	1 ml	Neisseria meningitidis Antiserum Group Y
222521	1 ml	Neisseria meningitidis Antiserum Group Z'
228911	1 ml	Neisseria meningitidis Antiserum Group Z
229101	1 ml	Neisseria meningitidis Antiserum Poly 2, Groups X, Y, Z
222321	1 ml	Neisseria meningitidis Antiserum Poly, Groups A, B, C, D

## Salmonella H (Flagellar) Antisera, Lyophilised

Difco™ Salmonella O, H and Vi Antisera are lyophilised, polyclonal rabbit antisera containing approximately 0.04% Thimerosal as a preservative. Difco™ Salmonella H Poly Antisera are polyvalent antisera specific for certain flagellar antigens. Each vial of Difco™ Salmonella H Antisera contains sufficient reagent to perform between 150-1500 tests, depending on the antiserum used. Difco™ Salmonella H Antisera are either absorbed or unabsorbed specifically for either phase 1 or phase 2 antigens. Difco™ Salmonella H Antisera Spicer-Edwards are pooled, polyvalent antisera and additional adjunctive antisera to identify the more commonly occurring H antigens.

**CAT. NO.      SIZE      DESCRIPTION**

222721	3 ml	Salmonella H Antiserum 1 Complex
228201	3 ml	Salmonella H Antiserum a
228211	3 ml	Salmonella H Antiserum b
228221	3 ml	Salmonella H Antiserum c
228231	3 ml	Salmonella H Antiserum d
222731	3 ml	Salmonella H Antiserum eh
222701	3 ml	Salmonella H Antiserum EN Complex
225441	3 ml	Salmonella H Antiserum f
222691	3 ml	Salmonella H Antiserum G Complex
225451	3 ml	Salmonella H Antiserum h
228241	3 ml	Salmonella H Antiserum i



## Salmonella H (Flagellar) Antisera, cont.

*Difco™ Salmonella O, H and Vi Antisera are lyophilised, polyclonal rabbit antisera containing approximately 0.04% Thimerosal as a preservative. Difco™ Salmonella H Poly Antisera are polyvalent antisera specific for certain flagellar antigens. Each vial of Difco™ Salmonella H Antisera contains sufficient reagent to perform between 150-1500 tests, depending on the antiserum used. Difco™ Salmonella H Antisera are either absorbed or unabsorbed specifically for either phase 1 or phase 2 antigens. Difco™ Salmonella H Antisera Spicer-Edwards are pooled, polyvalent antisera and additional adjunctive antisera to identify the more commonly occurring H antigens.*

**CAT. NO.      SIZE      DESCRIPTION**

222741	3 ml	<i>Salmonella</i> H Antiserum k
222711	3 ml	<i>Salmonella</i> H Antiserum L Complex
225461	3 ml	<i>Salmonella</i> H Antiserum m
225481	3 ml	<i>Salmonella</i> H Antiserum p
225391	3 ml	<i>Salmonella</i> H Antiserum Poly A, Factors a, b, c, d, i, z <sub>10</sub> , z <sub>29</sub>
224061	3 ml	<i>Salmonella</i> H Antiserum Poly a-z, EN, G, L, Z <sub>4</sub> & 1 complexes & a-k, r-z, z <sub>6</sub> , z <sub>10</sub> , z <sub>29</sub> agglutinins
225401	3 ml	<i>Salmonella</i> H Antiserum Poly B, Factors eh, en, enx, enz <sub>15</sub> & G complex
225411	3 ml	<i>Salmonella</i> H Antiserum Poly C, Factors k, l, r, y, z, z <sub>4</sub>
225421	3 ml	<i>Salmonella</i> H Antiserum Poly D, Factors z <sub>35</sub> , z <sub>36</sub> , z <sub>37</sub> , z <sub>38</sub> , z <sub>39</sub> , z <sub>41</sub> , z <sub>42</sub>
225431	3 ml	<i>Salmonella</i> H Antiserum Poly E, 1 Complex, z <sub>6</sub>
222751	3 ml	<i>Salmonella</i> H Antiserum r
225501	3 ml	<i>Salmonella</i> H Antiserum s
224741	3 ml	<i>Salmonella</i> H Antiserum Single Factor 2
224751	3 ml	<i>Salmonella</i> H Antiserum Single Factor 5
224761	3 ml	<i>Salmonella</i> H Antiserum Single Factor 6
224771	3 ml	<i>Salmonella</i> H Antiserum Single Factor 7
222651	3 ml	<i>Salmonella</i> H Antiserum Spicer-Edwards 1
222661	3 ml	<i>Salmonella</i> H Antiserum Spicer-Edwards 2
222671	3 ml	<i>Salmonella</i> H Antiserum Spicer-Edwards 3
222681	3 ml	<i>Salmonella</i> H Antiserum Spicer-Edwards 4
225511	3 ml	<i>Salmonella</i> H Antiserum t
225541	3 ml	<i>Salmonella</i> H Antiserum w
225551	3 ml	<i>Salmonella</i> H Antiserum x
222761	3 ml	<i>Salmonella</i> H Antiserum y
222771	3 ml	<i>Salmonella</i> H Antiserum z
222781	3 ml	<i>Salmonella</i> H Antiserum z <sub>4</sub>
224731	3 ml	<i>Salmonella</i> H Antiserum z <sub>6</sub>
222791	3 ml	<i>Salmonella</i> H Antiserum z <sub>10</sub>
225561	3 ml	<i>Salmonella</i> H Antiserum z <sub>13</sub>
225571	3 ml	<i>Salmonella</i> H Antiserum z <sub>15</sub>
225581	3 ml	<i>Salmonella</i> H Antiserum z <sub>23</sub>
225611	3 ml	<i>Salmonella</i> H Antiserum z <sub>28</sub>
222801	3 ml	<i>Salmonella</i> H Antiserum z <sub>29</sub>
225621	3 ml	<i>Salmonella</i> H Antiserum z <sub>32</sub>





## Salmonella O (Somatic) Antisera, Lyophilised

Difco™ Salmonella O, H and Vi Antisera are lyophilised, polyclonal rabbit antisera containing approximately 0.04% Thimerosal as a preservative. Difco™ Salmonella O Poly Antisera are polyvalent antisera. Each antiserum is specific for certain serogroup antigens. When properly rehydrated and used as recommended, each vial of Difco™ Salmonella O or Vi Antisera contains sufficient reagent for 60 tests.

**CAT. NO.      SIZE      DESCRIPTION**

222571	3 ml	Salmonella O Antiserum Factor 10, Group E1
227791	3 ml	Salmonella O Antiserum Factor 12
226611	3 ml	Salmonella O Antiserum Factor 14
222581	3 ml	Salmonella O Antiserum Factor 15, Groups E2 & E3
222591	3 ml	Salmonella O Antiserum Factor 19, Group E4
228141	3 ml	Salmonella O Antiserum Factor 2
226621	3 ml	Salmonella O Antiserum Factor 20
226631	3 ml	Salmonella O Antiserum Factor 22, Group G1
226641	3 ml	Salmonella O Antiserum Factor 23, Group G2
226671	3 ml	Salmonella O Antiserum Factor 27
211778	3 ml	Salmonella O Antiserum Factor 34, Group E3
226591	3 ml	Salmonella O Antiserum Factor 4, Group B
226601	3 ml	Salmonella O Antiserum Factor 5, Group B
228161	3 ml	Salmonella O Antiserum Factor 7, Groups C1 & C4
228171	3 ml	Salmonella O Antiserum Factor 8, Groups C2 & C3
228181	3 ml	Salmonella O Antiserum Factor 9, Group D
228151	3 ml	Salmonella O Antiserum Factors 4 & 5, Group B
229471	3 ml	Salmonella O Antiserum Group A Factors 1, 2, 12
229731	3 ml	Salmonella O Antiserum Group B Factors 1, 4, 5, 12
229481	3 ml	Salmonella O Antiserum Group B Factors 1, 4, 12, 27
229491	3 ml	Salmonella O Antiserum Group C <sub>1</sub> Factors 6, 7
229501	3 ml	Salmonella O Antiserum Group C <sub>2</sub> Factors 6, 8
230161	3 ml	Salmonella O Antiserum Group C <sub>3</sub> Factors 8, 20
229511	3 ml	Salmonella O Antiserum Group D <sub>1</sub> Factors 1, 9, 12
230171	3 ml	Salmonella O Antiserum Group D <sub>2</sub> Factor (9), 46
228191	3 ml	Salmonella O Antiserum Group E Factors 1, 3, 10, 15, 19, 34
229521	3 ml	Salmonella O Antiserum Group E <sub>1</sub> Factors 3, 10
229541	3 ml	Salmonella O Antiserum Group E <sub>2</sub> Factors 3, 15
230181	3 ml	Salmonella O Antiserum Group E <sub>3</sub> Factors (3), (15), 34
222601	3 ml	Salmonella O Antiserum Group F Factor 11
230291	3 ml	Salmonella O Antiserum Group G Factors 13, 22, 23, (36), (37)
222611	3 ml	Salmonella O Antiserum Group G1 Factors 13, 22, (36)
230201	3 ml	Salmonella O Antiserum Group G2 Factors 1, 13, 23, (36), (37)
222621	3 ml	Salmonella O Antiserum Group H Factors 1, 6, 14, 24, 25
222631	3 ml	Salmonella O Antiserum Group I Factors 1, 6, 14, 24, 25
211780	3 ml	Salmonella O Antiserum Group J Factor 17

## Salmonella O (Somatic) Antisera, cont.

*Difco™ Salmonella O, H and Vi Antisera are lyophilised, polyclonal rabbit antisera containing approximately 0.04% Thimerosal as a preservative. Difco™ Salmonella O Poly Antisera are polyvalent antisera. Each antiserum is specific for certain serogroup antigens. When properly rehydrated and used as recommended, each vial of Difco™ Salmonella O or Vi Antisera contains sufficient reagent for 60 tests.*

**CAT. NO.      SIZE      DESCRIPTION**

225181	3 ml	<i>Salmonella</i> O Antiserum Group K Factor 18
225191	3 ml	<i>Salmonella</i> O Antiserum Group L Factor 21
211781	3 ml	<i>Salmonella</i> O Antiserum Group M Factor 28
211783	3 ml	<i>Salmonella</i> O Antiserum Group N Factor 30
225221	3 ml	<i>Salmonella</i> O Antiserum Group O Factor 35
225341	3 ml	<i>Salmonella</i> O Antiserum Poly A, Groups A, B, D, E1, E2, E3, E4 & L
222641	3 ml	<i>Salmonella</i> O Antiserum Poly A-I & Vi Factors 1-16, 19, 22-25, 34 Vi
225351	3 ml	<i>Salmonella</i> O Antiserum Poly B, Groups C1, C2, F, G, H
225361	3 ml	<i>Salmonella</i> O Antiserum Poly C, Groups I, J, K, M, N, O
225371	3 ml	<i>Salmonella</i> O Antiserum Poly D, Groups P, Q, R, S, T, U
225381	3 ml	<i>Salmonella</i> O Antiserum Poly E, Groups V, W, X, Y, Z
226451	3 ml	<i>Salmonella</i> O Antiserum Poly F, Groups 51-55
226461	3 ml	<i>Salmonella</i> O Antiserum Poly G, Groups 56-61
228271	3 ml	<i>Salmonella</i> Vi Antiserum



## Shigella Grouping Antisera, Lyophilised

**CAT. NO.      SIZE      DESCRIPTION**

228341	3 ml	<i>Shigella</i> Antiserum Poly Group A
227761	3 ml	<i>Shigella</i> Antiserum Poly Group A1
228351	3 ml	<i>Shigella</i> Antiserum Poly Group B
228361	3 ml	<i>Shigella</i> Antiserum Poly Group C
227771	3 ml	<i>Shigella</i> Antiserum Poly Group C1
227781	3 ml	<i>Shigella</i> Antiserum Poly Group C2
228371	3 ml	<i>Shigella</i> Antiserum Poly Group D

## *Vibrio cholerae* Antisera, Lyophilised

*Lyophilised polyclonal rabbit Vibrio cholerae O1 antisera containing approximately 0.04% Thimerosal as a preservative. Difco™ Vibrio cholerae Antiserum Ogawa and Difco™ Vibrio cholerae Antiserum Inaba are monospecific absorbed antisera. When reconstituted and used as described, each vial contains sufficient reagent for 20 slide tests.*

**CAT. NO.      SIZE      DESCRIPTION**

224301	3 ml	<i>Vibrio cholerae</i> Antiserum Inaba
224311	3 ml	<i>Vibrio cholerae</i> Antiserum Ogawa
224321	3 ml	<i>Vibrio cholerae</i> Antiserum Poly



## Antigens

### Quality Control Antigens

CAT. NO.	SIZE	DESCRIPTION
221161	1 ml	Alkalescens-Dispar Group 1 QC Antigen
225851	5 ml	<i>Bordetella pertussis</i> Antigen
223031	5 ml	<i>Listeria</i> O Antigen Type 1 (Slide Test)
223041	5 ml	<i>Listeria</i> O Antigen Type 4 (Slide Test)
221301	1 ml	<i>Salmonella</i> O Group A Antigen
221311	1 ml	<i>Salmonella</i> O Group B Antigen
221321	1 ml	<i>Salmonella</i> O Group C1 Antigen
221331	1 ml	<i>Salmonella</i> O Group C2 Antigen
221341	1 ml	<i>Salmonella</i> O Group D Antigen
211750	1 ml	<i>Salmonella</i> O Group E1 Antigen
221421	1 ml	<i>Salmonella</i> Vi Antigen
221001	1 ml	<i>Shigella</i> Group A Antigen
211737	1 ml	<i>Shigella</i> Group A1 Antigen
211738	1 ml	<i>Shigella</i> Group B Antigen
221031	1 ml	<i>Shigella</i> Group C Antigen
221041	1 ml	<i>Shigella</i> Group C1 Antigen
221051	1 ml	<i>Shigella</i> Group C2 Antigen
221061	1 ml	<i>Shigella</i> Group D Antigen



### Adjuvants

CAT. NO.	SIZE	DESCRIPTION
231131	6 x 10 ml	Adjuvant, Complete H37 Ra Suspension of 10 mg <i>M. tuberculosis</i> in a mixture of paraffin oil and an emulsifying agent.
231141	6 x 100 mg	<i>M. Tuberculosis</i> H37 Ra (Desiccated) Killed <i>M. tuberculosis</i> H37 Ra for use in adjuvants.
263810	6 x 10 ml	Adjuvant, Complete (Freund) Suspension of 5 mg <i>M. butyricum</i> in a mixture of paraffin oil and an emulsifying agent.
263910	6 x 10 ml	Adjuvant, Incomplete (Freund)
264010	6 x 100 mg	<i>M. butyricum</i> (Desiccated) Killed <i>M. butyricum</i> for use in adjuvants.







# Environmental Systems



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## **BD Anaerobic Indicators**

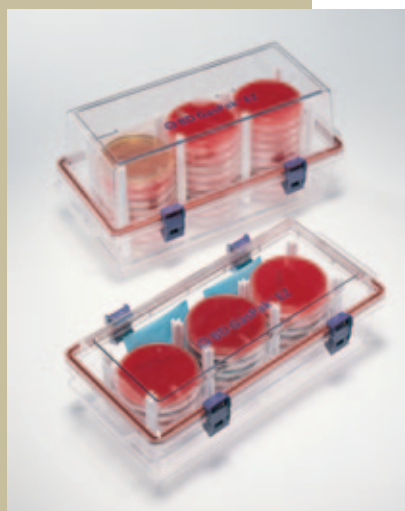
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In the late 1960s, BD launched the first ever commercial system for environmental generation, eliminating the need for vacuum pumps, gas tanks, nanometers and release valves. Over the next 50 plus years, BD has introduced a series of continually innovative and high performance products into this market.

For the generation of anaerobic, micro-aerophilic or CO<sub>2</sub>-enriched atmospheres in containers or jars, BD offers the BD GasPak™ EZ Container System and the BD GasPak™ 100 & 150 Systems. For the generation of anaerobic, microaerophilic or CO<sub>2</sub>-enriched atmospheres in pouches BD offers the BD GasPak™ EZ Pouch. Indicators may be placed in the vesicle to indicate when anaerobiosis or CO<sub>2</sub> generation is complete.

# Environmental Systems

## BD GasPak™ EZ Products



### BD GasPak™ EZ Container Systems

CAT. NO.	SIZE	DESCRIPTION
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260671	Standard	BD GasPak™ EZ - Incubation Container
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260672	Large	BD GasPak™ EZ Container Systems offer waterless, catalyst-free convenience for use in producing anaerobic, microaerophilic or CO <sub>2</sub> -enriched environments. Available in three convenient sizes, BD GasPak™ Incubation Containers are constructed of non-breakable, chemical resistant material designed to maintain a desired environment throughout incubation. 260671: Standard Incubation Container; holds up to 15/18 Petri dishes. 260672: Large Incubation Container; holds up to 30/33 dishes. 260002: Small Incubation Container; holds up to 10 dishes.
260002	Small	

260673	Standard	BD GasPak™ EZ - Container Rack
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260674	Large	Removable BD GasPak™ EZ Container Racks are available to secure Petri dishes and ease workflow. 260673: The STANDARD Rack is designed to hold up to 18 Petri dishes. 260674: The LARGE Rack is designed to hold up to 33 dishes. 260003: The SMALL Rack is designed to hold up to 10 dishes.
260003	Small	



### GasPak™ EZ Gas Generating Sachets

CAT. NO.	SIZE	DESCRIPTION
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260678	20 sachets	BD GasPak™ EZ - Anaerobe Container System Sachets
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BD GasPak™ EZ Container System Sachets are sold in packages of 20 sachets and are available for the generation of anaerobic, microaerophilic or CO<sub>2</sub> enriched environments. The sachets are activated immediately upon opening of the outer foil packaging and do not require the addition of water or catalyst. Contains 20 anaerobe container sachets. For use in GasPak™ EZ, GasPak™ 100 and GasPak™ 150 containers and the GasPak™ EZ Pouch System.

260001	20 sachets	GasPak™ EZ Anaerobe Container System Sachets with Indicator
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Anaerobic gas generation sachet. No water or catalyst needed, sachet is activated upon removal from its foil wrapper. An anaerobic indicator is attached to the pouch which is white when reduced and blue when oxidised. For use in GasPak™ EZ, GasPak™ 100 and GasPak™ 150 containers and the GasPak™ EZ Pouch System.

260679	20 sachets	BD GasPak™ EZ - CO <sub>2</sub> Container System Sachets
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For the generation of CO<sub>2</sub> enriched environments. No water or catalyst needed. For use in GasPak™ EZ, GasPak™ 100 and GasPak™ 150 containers and the GasPak™ EZ Pouch System.

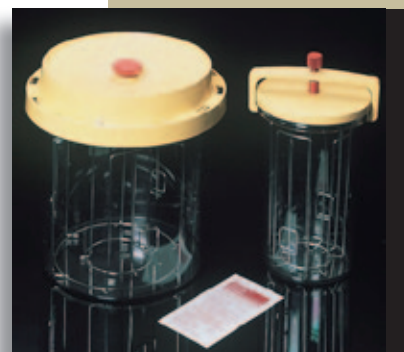
260680	20 sachets	BD GasPak™ EZ - Campy Container System Sachets
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For the generation of microaerophilic environments. No water or catalyst needed. For use in GasPak™ EZ, GasPak™ 100 and GasPak™ 150 containers and the GasPak™ EZ Pouch System.

# BD GasPak™ 100 & 150 Systems

## BD GasPak™ 100 & GasPak™ 150 Anaerobic Jars

CAT. NO.	SIZE	DESCRIPTION
260626	Small	BD GasPak™ Complete Systems
260628	Large	Small container: BD GasPak™ 100 System. Consists of polycarbonate jar, lid with "O" ring gasket, improved clamp/thumbscrew assembly and catalyst reaction chamber, two catalyst charges, one rack and one tube holder. Holds up to 12 plates and uses 1 gas generating sachet. Large container: BD GasPak™ 150 System. Consists of polycarbonate jar (non-vented), lid assembly with "O" ring gasket and catalyst reaction chambers (3 each), ten catalyst charges, one rack and one tube holder. Holds up to 36 plates and uses 3 gas generating sachets.



## BD GasPak™ 100 Replacement Parts

CAT. NO.	SIZE	DESCRIPTION
260411	1	BD GasPak™ 100 - Lid With improved clamp/thumbscrew assembly, "O" ring gasket, and catalyst reaction chamber, with two catalyst charges.
260637	1	BD GasPak™ 100 - Lid without O-Ring Without clamp screw, catalyst reaction chamber or catalyst charges.
260463	1	BD GasPak™ 100 - Polycarbonate Jar without Lid
260413	1	BD GasPak™ 100 - "O" Ring Gasket
270303	10	Catalyst Replacement Charges

## BD GasPak™ 150 Replacement Parts

CAT. NO.	SIZE	DESCRIPTION
260610	1	BD GasPak™ 150 - Lid Assembly Consists of outer lid and thumb screw, inner lid, large "O" ring gasket, three catalyst reaction chambers and six catalyst charges.
270124	1	BD GasPak™ 150 - Inner Lid Without outer lid and thumbscrew, catalyst reaction chambers or catalyst charges.
260607	1	BD GasPak™ 150 - Anaerobic Jar without Lid (Large)



# BD GasPak™ EZ Pouch Systems

## BD GasPak™ EZ Pouch Systems



CAT. NO.	SIZE	DESCRIPTION
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260683	20 pouches	BD GasPak™ EZ - Anaerobe Pouch System
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BD GasPak™ EZ Pouch Systems offer the convenience of pouches integrated into a complete kit with everything you need to generate a pouch based anaerobic, microaerophilic or CO<sub>2</sub>-enriched environment. Anaerobic indicators are provided with the BD GasPak™ EZ Anaerobic Pouch System. The BD GasPak™ EZ Pouch Systems feature one-step re-sealable pouches, which have been specially designed to maximise the preservation of the desired environment throughout incubation.

The system is also waterless and catalyst free, it contains:

- 20 sachets
- 20 re-sealable pouches
- 20 Dry Anaerobic Indicators

260684	20 pouches	BD GasPak™ EZ - CO <sub>2</sub> Pouch System
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For the generation of CO<sub>2</sub> enriched environments. Containing 20 sachets and 20 re-sealable pouches.

260685	20 pouches	BD GasPak™ EZ - BD CampyPouch™ System
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For the generation of microaerophilic environments. Contains 20 sachets and 20 re-sealable pouches.

## BD Anaerobic Indicators

### Anaerobic Indicators

CAT. NO.	SIZE	DESCRIPTION
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271051	100 strips	BD GasPak™ - Dry Anaerobic Indicator Strips
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Contains a dry indicator pad that changes from blue to colourless in the absence of oxygen.

271055	50 strips	BD GasPak™ - CO <sub>2</sub> Indicator Strips
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CO<sub>2</sub> Indicator Reagent Droppers: Indicates when an ideal carbon dioxide-enriched environment has been achieved.







# Identification & Susceptibility Testing



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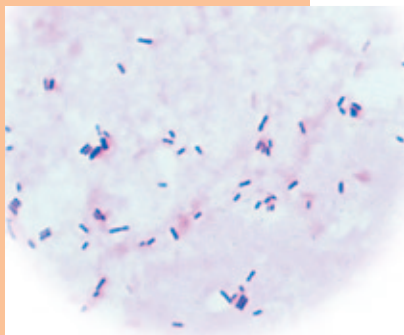
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# Identification & Susceptibility Testing



## BD Difco™ - BD BBL™ - Stains, Droppers & Indicators

### BD Stains, Kits & Reagents

CAT. NO.	SIZE	DESCRIPTION
212539	1 kit	Gram Stain Kit (with stabilised iodine)  Because inorganic iodine is rapidly oxidised and loses its effectiveness as a mordant, this Gram Stain Kit (Cat. No. 212539) differs from Gram's original formulation by offering a more stable organic iodine complex, L-polyvinylpyrrolidone-iodine. Each kit contains 1 bottle (250 ml) each of: <ul style="list-style-type: none"> <li>• Gram Crystal Violet</li> <li>• Gram Iodine (Stabilised)</li> <li>• Gram Decolouriser</li> <li>• Gram Safranin</li> </ul>
231401	50 x 50 tests	Gram Quality Control Slide  BD BBL™ Gram Stain QC Slides. Conventional 1" x 3" microscope slides imprinted with 10 squares. One square contains control organisms <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> . Nine squares are available for staining test isolates. Gram Slides, individually wrapped, sufficient for 50 tests.

### BD Diagnostic Reagent & Stain Droppers

CAT. NO.	SIZE	DESCRIPTION
261195	50 ampules	Calcofluor White  Calcofluor White Reagent Droppers are used in the rapid fluorescent microscopic detection of fungi in direct smears. It may be used on fresh, frozen, fixed, paraffin-embedded, and clinical specimens. It can be used in the detection of <i>Pneumocystis carinii</i> and other opportunistic fungal parasites in bronchoalveolar lavage (BAL) specimens and aspirates from immunosuppressed individuals such as AIDS patients. Contains 0.5 ml of a 0.05% solution of calcofluor white in distilled water.
261203	50 ampules	Catalase  Catalase Reagent Droppers are used in a qualitative procedure for determining catalase activity by bacteria. Catalase Reagent Droppers contain a hydrogen peroxide solution of approximately 3% (2.5% to 3.5%). This reagent has been frequently cited as a standard method for performing the catalase test. Contains (approximately) 3% Hydrogen Peroxide and 0.05% or less of stabiliser.
261183	50 ampules	Desoxycholate  Desoxycholate Reagent Droppers are used for the presumptive differentiation of pneumococci from other Gram-positive cocci by the bile solubility test. Each dropper is good for one day's use after ampule has been broken. Contains 0.5 ml of 10% aqueous solution of sodium desoxycholate.

261187	50 ampules	DMACA Indole	DMACA Indole Reagent Droppers are for the detection of indole production as an aid in the identification of aerobic, anaerobic, or facultatively anaerobic organisms. They are used in a rapid spot test for determining the ability of bacteria to produce indole by the deamination of tryptophan. The colour change with DMACA is both rapid and long lasting, making results easier to interpret than with more traditional reagents. Contains 0.5 ml of aqueous 1% p-Dimethylaminocinnamaldehyde in 10% hydrochloric acid.
261190	50 ampules	Ferric Chloride	Ferric Chloride Reagent Droppers are intended for use in the differentiation of microorganisms capable of phenylalanine deamination. Contain 0.5 ml of 10% ferric chloride in aqueous solution.
261194	50 ampules	India Ink	India Ink Reagent Droppers are used to enhance the microscopic detection of <i>Cryptococcus</i> spp. in wet preparations. India Ink Reagent Droppers may be used to stain pus, exudate, tissue, sputum and sediment of centrifuged urine and cerebral spinal fluid (CSF) specimens. Contains 0.5 ml of an aqueous suspension of India ink with suspending agent and preservative.
261185	50 ampules	Indole	Indole Reagent Droppers (modified Kovacs' reagent) are used in determining the ability of bacteria to produce indole by the deamination of tryptophan. Contains 0.5 ml of 5% p-dimethylaminobenzaldehyde dissolved in a solution of 25% hydrochloric acid and 75% isobutyl alcohol.
261188	50 ampules	Lactophenol Cotton Blue	The solution can be used in wet mounts in the examination of yeasts and molds and serves as both a mounting fluid and a stain.
261181	50 ampules	Oxidase	Oxidase Reagent Droppers are used in the Kovacs oxidase test as a qualitative reaction in the identification of nonfermenters and miscellaneous Gram-negative bacteria. The oxidase test is based on the production of an enzyme called indophenol oxidase. This enzyme oxidises a redox dye (present in the reagent) which results in a colour change of yellow to dark purple. Contains 0.5 ml of a 1% aqueous solution of N,N,N',N'-tetramethyl-p-phenylenediamine dihydrochloride which has been formulated with agents to ensure maximum stability.
261191	50 ampules	10% Potassium Hydroxide	10% Potassium Hydroxide Reagent Droppers are intended for use in the examination of direct smears for fungal elements, most commonly with skin, hair, nail and sputum specimens. Contains 0.5 ml of 10% KOH with 1% dimethyl sulfoxide.
261196	50 ampules	PYR	PYR Reagent Droppers are used in the rapid presumptive identification of group A $\beta$ -haemolytic streptococci and group D enterococci.
261192	50 ampules	Voges-Proskauer A	For use in the Voges-Proskauer test to distinguish between members of the Enterobacteriaceae. Contains 0.5 ml of 5% wt/vol alphanaphthol in absolute alcohol.
261193	50 ampules	Voges-Proskauer B	Voges-Proskauer Reagent B Droppers contain 0.5 ml of 40% wt/vol potassium hydroxide in distilled water.





## BD DrySlide™

CAT. NO.	SIZE	DESCRIPTION
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231746	75 slides	BD DrySlide™ - Oxidase
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Used for determining the oxidase reaction of bacteria; 25 x 3 slides. Oxidase-positive organisms produce a purple or dark colour within 20 seconds. Oxidase-negative organisms produce no colour change or a change to light gray within the 20 second test period.

231747	15 slides	BD DrySlide™ - PYR Kit
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BD DrySlide™ PYR is a disposable slide format for the presumptive identification of group A streptococci and enterococci. Contains the reagent L-pyrrolidonyl-β-naphthylamide (PYR) which is hydrolysed by bacteria possessing the enzyme pyrrolidonyl amino peptidase. The addition of the BD DrySlide™ PYR Colour Developer, which is provided in convenient crush ampules, results in a vivid colour reaction in a 3 minute test.

60 tests consisting of:

- 15 BD DrySlide™ PYR Slides
- 15 x 0.5 ml BD DrySlide™ PYR Colour Developer

231748	75 slides	BD DrySlide™ - Indole
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BD DrySlide™ Indole is used for determining the indole reaction of bacteria. The indole test is a qualitative procedure for determining the ability of bacteria to produce indole by reductive deamination of tryptophan. Vracko and Sherris showed that the indole test can be performed using filter paper moistened with p-dimethylaminobenzaldehyde (DMABA), an effective indicator of indole production. BD DrySlide™ Indole is a disposable slide with four filter paper reaction areas containing 5% pdimethylaminobenzaldehyde (DMABA); 25 x 3 slides.

231749	25 slides	BD DrySlide™ - Nitrocefin
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Used for detecting β-lactamase production by bacteria. BD DrySlide™ Nitrocefin employs nitrocefin, a cephalosporin compound first described by Glaxo Research (Middlesex, England), in the chromogenic cephalosporin test methodology.

# BD Crystal™ Manual Identification

## BD Crystal™ Test Kits

The Crystal™ Kits are a miniaturised identification method. Many of the tests used are modifications of classical methods. These include tests for fermentation, oxidation, degradation and hydrolysis of various substrates. In addition, there are chromogen linked substrates to detect enzymes that microbes use to metabolise various substrates.

One-step inoculation with no pipetting for dramatically reduced hands-on time and virtually no repetitive movements. Reagents are pre-dispensed in the wells so no reagent additions or oil overlay are needed. All components are included in every test kit. After inoculation, the snap-on lid ensures a closed system for integrity, safety and no spillage. Each panel IDs many organisms so fewer kits are needed.

**CAT. NO.      SIZE      DESCRIPTION**

**245000      20 tests/kit      BD Crystal™ - Enteric/Nonfermenter ID Kit**

For the identification of aerobic Gram-negative bacteria that belong to the family Enterobacteriaceae as well as some of the more frequently isolated glucose fermenting and non-fermenting Gram-negative bacilli.

The kit contains:

- 20 panel lids
- 20 panel bases
- 20 inoculum tubes
- 2 incubation trays
- 1 result pad

**245010      20 tests/kit      BD Crystal™ - Anaerobe ID Kit**

Intended for the identification of clinically significant anaerobic bacteria in 4 hours. Separate databases for Schaedler Blood Agar, CDC Anaerobe Blood Agar and Alternate Blood Agars are included for improved specificity.

The kit contains:

- 20 panel lids
- 20 panel bases
- 20 inoculum tubes
- 2 incubation trays
- 1 result pad

**245130      20 tests/kit      BD Crystal™ - Neisseria/Haemophilus ID Kit**

Intended for the identification of frequently isolated *Neisseria* and *Haemophilus* species as well as several other fastidious bacteria. The kit identifies 35 organisms from multiple media.

The kit contains:

- 20 panel lids
- 20 panel bases
- 20 inoculum tubes
- 2 incubation trays
- 1 result pad

**245140      20 tests/kit      BD Crystal™ - Gram-Positive ID Kit**

Intended for the identification of frequently isolated aerobic Gram-positive bacteria.

The kit contains:

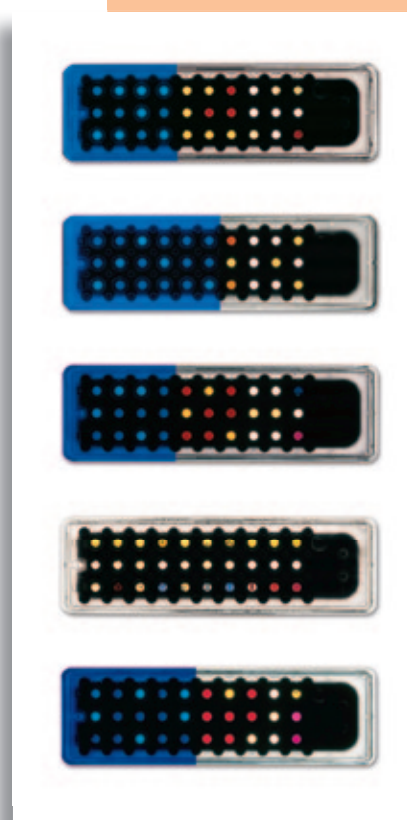
- 20 panel lids
- 20 panel bases
- 20 inoculum tubes
- 2 incubation trays
- 1 result pad

**245150      20 tests/kit      BD Crystal™ - Rapid Gram-Positive ID Kit**

For the identification of frequently isolated aerobic Gram-positive bacteria. The kit identifies 88 Gram-positive organisms from multiple media.

The kit contains:

- 20 panel lids
- 20 panel bases
- 20 inoculum tubes
- 2 incubation trays
- 1 result pad







## BD Crystal™ Accessories

CAT. NO.	SIZE	DESCRIPTION
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245300	10 tubes	BD Crystal™ - Autoreader
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The BD Crystal™ Autoreader is a compact, easy-to-use machine which can be run with the standard Crystal MIND software. After incubation, just put the Crystal™ Panel into the autoreader and results are instantly uploaded. Ensures consistent, reliable results without subjective interpretation.

245302	10 tubes	BD Crystal™ - Reference Panel for Autoreader
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For calibration of the BD Crystal™ Autoreader.

245032	1	BD Crystal™ - Panel Viewer
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The BD Crystal™ Panel Viewer can be used for the manual interpretation of all BD Crystal™ kits. With integrated UV lamp for the evaluation of chromogenic and fluorogenic reactions.

440910	1	BD PhoenixSpec™ - Nephelometer
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A battery-powered, portable device designed for measuring inoculum density in McFarland units. The device is accurate from 0.5-4 McFarland units in increments of 0.1 units. The instrument can be used for any laboratory procedure that requires inoculum density adjustments within this range. Includes a calibration blank (0 McFarland), calibration standard (2.0 McFarland), low volume sample adaptor and a battery. Used with BD PhoenixSpec™ -Calibration Standards, Cat. No. 440911 or Cat No 441951.

440984	1	PhoenixSpec™ 240V AC Adapter
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BD Crystal™ - MIND Software		
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The BD Crystal™ MIND (Microbiology Interactive Database) software is designed to identify clinically relevant bacteria. BD Crystal™ MIND provides identification of the unknown organism run in a panel by mathematically interpreting the BD Crystal™ profile number and off-line test results and evaluating the results against the organisms contained in the appropriate Crystal™ MIND database. Available to download on [www.bd.com/ds/crystalMIND](http://www.bd.com/ds/crystalMIND).



# BD Taxo™ Manual Differentiation

## BD Taxo™ Differentiation Discs & Strips

CAT. NO.	SIZE	DESCRIPTION
231554	10 x 50 discs	<p>BD Taxo™ - P Discs</p> <p>BD Taxo™ P Discs are impregnated with ethylhydrocupreine hydrochloride (optochin), a drug used for pneumonia therapy before sulfonamides became available. The growth of pneumococci, but not of other streptococci, is markedly inhibited by this chemical. Pneumococci may, therefore, be differentiated from other alpha-haemolytic streptococci by the formation of a zone of inhibition around a BD Taxo™ P disc placed on a blood agar plate heavily inoculated with a pure culture suspected to be <i>Streptococcus pneumoniae</i>.</p>
231109	6 x 50 strips	<p>BD Taxo™ - V Factor Strips</p> <p>BD Taxo™ Strips impregnated with X, V and X and V factors are used in a qualitative procedure for the isolation and differentiation of <i>Haemophilus</i> species. The growth of these organisms is partially dependent upon the presence of the X or V factor or both. These strips provide a simple method for determining the growth requirements of organisms in this group. BD Taxo™ X and V Factor Strips may be substituted for the staphylococcus streak used in some laboratories for isolation of <i>Haemophilus</i> spp. when the base medium is BD Trypticase™ Soy Agar with or without sheep blood. 6 Vials.</p>
231107	6 x 50 strips	<p>BD Taxo™ - X Factor Strips</p> <p>For differentiating <i>Haemophilus</i> species.</p>
231104	50 strips	BD Taxo™ - X and V Factor Strips
231105	6 x 50 strips	For differentiating <i>Haemophilus</i> species.



# BD Sensi-Disc™ Manual Susceptibility Testing

## BD Sensi-Disc™ Dispensers

CAT. NO.	SIZE	DESCRIPTION
260457	1	<p>BD Sensi-Disc™ Dispenser, single place</p> <p>The BD Sensi-Disc™ Single Disc Dispenser is recommended for the individual application of cartridge BD BBL™ brand antimicrobial susceptibility test and biochemical differentiation discs onto the surface of inoculated plated media. The Single Disc Dispenser replaces the manual placement of discs using sterile forceps.</p>
260661	1	<p>BD Sensi-Disc™ Dispenser, 6-place</p> <p>These BD Sensi-Disc™ self-tamping dispensers accommodate 6 cartridges of BD Sensi-Disc™ susceptibility test discs or BD Taxo™ anaerobe differentiation discs. They are used to deliver discs onto 90 mm and 100 mm-style Petri dishes. Complete with storage canister and reusable indicator desiccant container.</p>
260660	1	<p>BD Sensi-Disc™ Dispenser, 8-place</p> <p>These BD Sensi-Disc™ self-tamping dispensers accommodate 8 cartridges of BD Sensi-Disc™ susceptibility test discs or BD Taxo™ anaerobe differentiation discs. They are used to deliver discs onto 90 mm and 100 mm-style Petri dishes. Complete with storage canister and reusable indicator desiccant container.</p>
260640	1	<p>BD Sensi-Disc™ Dispenser, 12 place</p> <p>The BD Sensi-Disc™ Designer Dispenser accommodates up to twelve cartridges of BD Sensi-Disc™ susceptibility test discs. It is used to deliver discs onto 150 mm-style Petri dishes when performing disc susceptibility testing, especially by the standardised method.</p>





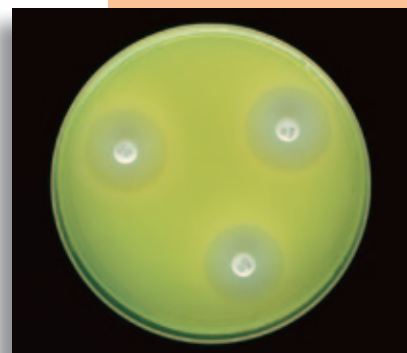
## BD Sensi-Disc™ Susceptibility Test Discs

*Sensi-Disc™ brand discs are 6-mm discs prepared by impregnating high quality absorbent paper with accurately determined amounts of antibiotic or other chemotherapeutic agents. Discs are clearly marked on both sides with letters and numbers designating the agent and the drug content. Discs listed below are required by the latest guidelines from the CLSI (Clinical and Laboratory Standards Institute). The discs are furnished in cartridges containing 50 discs each. The last disc in each cartridge is marked "X" and contains the drug as coded. Cartridges are for use in the BD BBL™ Sensi-Disc™ Dispensers detailed on the previous page. Discs are available in a single cartridge of 50 discs, or in blister packs of 10 cartridges.*

**CAT. NO.      SIZE      DESCRIPTION**

231597	10 x 50 discs	Amikacin, 30 µg (AN-30)
231629	10 x 50 discs	Amoxicillin, 20 µg + Clavulanic Acid, 10 µg (AmC-30)
231264	10 x 50 discs	Ampicillin, 10 µg (AM-10)
231660	10 x 50 discs	Ampicillin, 10 µg + Sulbactam, 10 µg (SAM-20)
254749	50 discs	Azlocillin, 30 µg (AZ-30)
231682	10 x 50 discs	Azithromycin, 15 µg (AZM-15)
231625	10 x 50 discs	Azlocillin, 75 µg (AZ-75)
231641	10 x 50 discs	Aztreonam, 30 µg (ATM-30)
231555	10 x 50 discs	Carbenicillin, 100 µg (CB-100)
231653	10 x 50 discs	Cefaclor, 30 µg (CEC-30)
231595	10 x 50 discs	Cefamandole, 30 µg (MA-30)
231593	10 x 50 discs	Cefazolin, 30 µg (CZ-30)
231713	50 discs	Cefdinir, 5 µg (CDR-5)
231696	10 x 50 discs	Cefepime, 30 µg (FEP-30)
231664	10 x 50 discs	Cefixime, 5 µg (CFM-5)
231643	10 x 50 discs	Cefonicid, 30 µg (CID-30)
231613	10 x 50 discs	Cefoperazone, 75 µg (CFP-75)
231607	10 x 50 discs	Cefotaxime, 30 µg (CTX-30)
231656	10 x 50 discs	Cefotetan, 30 µg (CTT-30)
231591	10 x 50 discs	Cefoxitin, 30 µg (FOX-30)
231674	10 x 50 discs	Cefpodoxime, 10 µg (CPD-10)
231684	10 x 50 discs	Cefprozil, 30 µg (CPF-30)
231633	10 x 50 discs	Ceftazidime, 30 µg, (CAZ-30)
231623	10 x 50 discs	Ceftizoxime, 30 µg (ZOX-30)
231621	10 x 50 discs	Cefuroxime, 30 µg (CXM-30)
231271	10 x 50 discs	Cephalothin, 30 µg (CF-30)
231599	10 x 50 discs	Cinoxacin, 100 µg (CIN-100)
231658	10 x 50 discs	Ciprofloxacin, 5 µg (CIP-5)
231274	10 x 50 discs	Chloramphenicol, 30 µg (C-30)
231678	10 x 50 discs	Clarithromycin, 15 µg (CLR-15)
231275	10 x 50 discs	Clindamycin, 2 µg (CC-2)
231278	10 x 50 discs	Colistin, 10 µg (CL-10)
232116	50 discs	Dalfopristin/Quinupristin (Synercid), 15 µg (SYN-15)
232219	10 x 50 discs	Doripenem, 10 µg (DOR-10)
231286	10 x 50 discs	Doxycycline, 30 µg (D-30)
232175	10 x 50 discs	Ertapenem, ETP-10, 10 mcg (10/sp)

231290	10 x 50 discs	Erythromycin, 15 µg (E-15)
231709	50 discs	Fosfomicin, 200 µg (FOS-200)
231760	10 x 50 discs	Gatifloxacin, 5 µg (GAT-5)
231299	10 x 50 discs	Gentamicin, 10 µg (GM-10)
231645	10 x 50 discs	Imipenem, 10 µg (IPM-10)
231706	10 x 50 discs	Levofloxacin, 5 µg (LVL-5)
231686	10 x 50 discs	Lomefloxacin, 10 µg (LOM-10)
231762	10 x 50 discs	Linezolid, 30 µg (LZD-30)
232149	10 x 50 discs	Mecillinam, 10 µg (MEC-10)
231704	10 x 50 discs	Meropenem, 10 µg (MEM-10)
231615	10 x 50 discs	Mezlocillin, 30 µg (MZ-75)
231251	10 x 50 discs	Minocycline, 30 µg (MI-30)
231611	10 x 50 discs	Moxalactam, 30 µg (MOX-30)
231758	10 x 50 discs	Moxifloxacin, 5 µg (MXF-5)
232097	50 discs	Mupirocin, 200 µg (MUP-200)
231311	10 x 50 discs	Nalidixic Acid, 30 µg (NA-30)
231293	10 x 50 discs	Nitrofurantoin, 300 µg (FM-300)
231647	10 x 50 discs	Norfloxacin, 10 µg (NOR-10)
231672	10 x 50 discs	Ofloxacin, 5 µg (OFX-5)
231319	10 x 50 discs	Oxacillin, 1 µg (OX-1)
231321	10 x 50 discs	Penicillin, 10 units (P-10)
231609	10 x 50 discs	Piperacillin, 100 µg (PIP-100)
231692	10 x 50 discs	Piperacillin 75 µg + Tazobactam 10 ug (TZP-110)
231544	10 x 50 discs	Rifampin, 5 µg (RA-5)
231637	10 x 50 discs	Spectinomycin, 100 µg (SPT-100)
231328	10 x 50 discs	Streptomycin, 10 µg (S-10)
231296	10 x 50 discs	Sulfisoxazole, 25 µg (G-25)
291311	10 x 50 discs	Teicoplanin, 30 µg (TEC-30)
232226	10 x 50 discs	Telavancin, 30 µg (TLV-30)
266647	50 discs	Telithromycin, 15 µg (TEL-15)
231344	10 x 50 discs	Tetracycline, 30 µg (TE-30)
231649	10 x 50 discs	Ticarillin with Clavulanic Acid (Timentin), 85 µg (TIM-85)
231619	10 x 50 discs	Ticarillin, 75 µg (TIC-75)
232208	10 x 50 discs	Tigecycline, 15 µg (TGC-15)
231569	10 x 50 discs	Tobramycin, 10 µg (NN-10)
231539	10 x 50 discs	Trimethoprim 1.25 µg + Sulfamethoxazol 23.75 µg (SXT)
231601	10 x 50 discs	Trimethoprim, 5 µg (TMP-5)
231353	10 x 50 discs	Vancomycin, 30 µg (VA-30)





## BD Sensi-Disc™ ESB L Confirmatory Test Discs

For confirmatory testing of suspected Extended- Spectrum Beta-Lactamase producing strains of *Klebsiella pneumoniae*, *Klebsiella oxytoca* and *Escherichia coli*.

CAT. NO.	SIZE	DESCRIPTION
231607	10 x 50 discs	Cefotaxime, 30 µg (CTX-30)
231752	10 x 50 discs	Cefotaxime, 30 µg, with Clavulanic Acid, 10 µg (CTX-30/CLA-10)
231633	10 x 50 discs	Ceftazidime, 30 µg (CAZ-30)
231754	10 x 50 discs	Ceftazidime, 30 µg, with Clavulanic Acid, 10 µg (CAZ-30/CLA-10)

## BD Phoenix™ Automated Identification & Susceptibility Testing

### BD Phoenix™ Instrument & Accessories

CAT. NO.	SIZE	DESCRIPTION
448100	1	<b>BD Phoenix™ 100 - Instrument</b> <p>The BD Phoenix™ Automated Microbiology System is designed for the rapid Identification (ID) and Antimicrobial Susceptibility Testing (AST) of clinically significant human bacterial pathogens. The instrument holds up to 100 panels (ID only, AST only, combined ID/AST, or a mixture), thus being capable of performing 200 simultaneous tests with the combined ID/AST panels. Identification is based on colourimetric and fluorescence readings without the need for supplemental tests or reagent addition. The AST is based on a dual indicator system (redox and turbidity readings) for optimal performance. Panel readings are taken by the BD Phoenix™ instrument every 20 minutes and on average, provide the final interpretation of ID results in less than 3 hours and of AST results in approximately 8 hours. Over 160 Gram-negative organisms and over 145 Gram-positive organisms are in the BD Phoenix™ database. The BD Phoenix™ supports CLSI (formerly NCCLS), SFM and EUCAST based rules as well as customisable breakpoints. An integrated customisable expert system (BDXpert System) is used for result validation. The BD Phoenix™ System features only one moving part, easy-to-use icon driven software, rapid reporting of preliminary results, specimen barcoding, direct LIS connection and minimal user maintenance. The System can be connected to the BD EpiCenter™ Data Management System which provides the laboratory with workflow management, patient demographic storage, advanced query and custom reporting, and infection control and epidemiology analysis.</p>
448040	1	<b>BD Phoenix™ - Starter Kit</b> <p>The BD Phoenix™ Starter Kit includes:</p> <ul style="list-style-type: none"> <li>• 5 inoculation stations</li> <li>• 2 panel caddies</li> <li>• 1 fixed volume pipette</li> <li>• 960 pipette tips</li> <li>• 1 temperature panel</li> <li>• 4 spare air filters</li> <li>• 1 external bar code scanner</li> <li>• 3 power cords and</li> <li>• 1 quick reference guide</li> </ul>
440910	1	<b>BD PhoenixSpec™ - Nephelometer</b> <p>A battery-powered, portable device designed for measuring inoculum density in McFarland units. The device is accurate from 0.5-4 McFarland units in increments of 0.1 units. The instrument can be used for any laboratory procedure that requires inoculum density adjustments within this range. Includes a calibration blank (0 McFarland), calibration standard (2.0 McFarland), low volume sample adaptor and a battery. Used with BD PhoenixSpec - Calibration Standards, Cat. No. 440911.</p>
440911	1	<b>BD PhoenixSpec™ - Calibration Standards</b> <p>Contains 0.1 &amp; 4.5 McFarland standards for the proper calibration of a BD PhoenixSpec Nephelometer, plus 0.25 &amp; 0.5 McFarland standards to assure proper operation on a daily basis.</p>



448045	100	BD Phoenix™ - Panel Closure
		100 panel closures, used for sealing of BD Phoenix™ panels after inoculation.
246001	100 x 4.5 ml	BD Phoenix™ - ID Broth
		The BD Phoenix™ ID broth is a modified saline solution that, after addition of bacteria, is used for identification of microorganisms by the BD Phoenix™ system. The broth is supplied in screw-cap tubes with a volume of 4.5 ml. 1 tube of ID Broth is sufficient to inoculate 1 BD Phoenix™ panel.
246003	100 x 8 ml	BD Phoenix™ - AST Broth
		The BD Phoenix™ AST broth is modified Mueller Hinton Broth that, after the addition of AST indicator and bacterial suspension, is used for susceptibility testing of microorganisms by the BD Phoenix™ system. The broth is supplied in screw-cap tubes with a volume of 8.0 ml. 1 tube of AST Broth is sufficient to inoculate 1 BD Phoenix™ panel.
246004	10	BD Phoenix™ - AST Indicator
		The BD Phoenix™ AST indicator is a redox indicator that, after addition to AST broth, is used for susceptibility testing of microorganisms by the BD Phoenix™ system. Each 6 ml bottle of AST Indicator is sufficient for the inoculation of 100 AST Broth tubes, i.e. 1 package (10 bottles) is sufficient for 1000 tubes.



## BD Phoenix™ Gram Positive Combo Panels

CAT. NO.	SIZE	DESCRIPTION
448761	25 panels	BD Phoenix™ Gram Positive Combo Panel (PMIC/ID-69)
		CLSI Standard. List of Antimicrobials (µg/ml): AMC 1/0.5 - 4/2, AM 2 - 8, NCF, CTX 8 - 32, FOX 2 - 8, CIP 0.5 - 2, CC 0.5 - 2, DAP 1 - 4, ECC, E 0.25 - 4, FA 1 - 8, GM 2 - 8, GMS 500, IPM 2 - 8, LZD 1 - 4, MXF 0.5 - 2, MUH 256, FM 16 - 64, OX 0.25 - 2, P 0.0625 - 0.25, RA 0.5 - 2, TEC 1 - 16, TE 0.5 - 8, SXT 1/19 - 4/76, VA 0.5 - 16
448763	25 panels	BD Phoenix™ Gram Positive Combo Panel (PMIC/ID-70)
		CLSI Standard. List of Antimicrobials (µg/ml): AM 2 - 8, CZ 2 - 16, FOX 2 - 8, CC 0.25 - 2, DAP 0.5 - 4, E 0.25 - 4, GM 2 - 8, GMS 500, ECC, LVX 0.5 - 2, LZD 1 - 4, NCF, MXF 0.25 - 1, FM 16 - 64, NOR 1 - 8, OX 0.25 - 2, P 0.0625 - 8, SYN 0.5 - 2, RA 0.5 - 2, TEC 1 - 16, TE 0.5 - 8, SXT 1/19 - 4/76, VA 1 - 16

## BD Phoenix™ Gram Negative Combo Panels

CAT. NO.	SIZE	DESCRIPTION
448781	25 panels	BD Phoenix™ Gram Negative Combo Panel (NMIC/ID-94)
		CLSI Standard. List of Antimicrobials (µg/ml): AN 8 - 32, AMC 4/2 - 16/8, AM 4 - 16, ATM 2 - 16, FEP 1 - 16, FOX 4 - 16, CAZ 1 - 16, RO 1 - 32, CXM 4 - 16, CF 4 - 16, CIP 0.5 - 2, CO 1 - 4, ETP 0.25 - 4, GM 2 - 8, IPM 1 - 8, LVX 1 - 4, MEM 1 - 8, FM 16 - 64, TZP 4/4 - 64/4, TGC 1 - 4, SXT 1/19 - 4/76, CCX <9, CCZ <9, CPD <9, CAZ <9, CCR <9.
448839	25 panels	BD Phoenix™ Gram Negative Combo Panel (NMIC/ID-99)
		CLSI Standard. List of Antimicrobials (µg/ml): AN 8 - 32, AMC 4/2 - 16/8, SAM 4/2 - 16/8, ATM 2 - 16, CZ 2 - 8, FEP 1 - 16, SCP 0.5/8 - 32/8, FOX 4 - 16, CAZ 1 - 16, CIP 0.5 - 2, CL 1 - 4, ETP 0.25 - 1, GM 2 - 8, IPM 0.5 - 8, LVX 1 - 4, MEM 0.5 - 8, TZP 4/4 - 64/4, TIM 8/2 - 128/2. TGC 1 - 4, SXT 1/19 - 4/76, CCX <9, CCZ <9, CPD <9, CAZ <9, CCR <9.
448765	25 panels	BD Phoenix™ Gram Negative Combo Panel (UNMIC/ID-83)
		Urine Panel. CLSI Standard. List of Antimicrobials (µg/ml): AMC 4/2 - 16/8, SAM 4/2 - 16/8, ATM 2 - 16, CZ 4 - 16, FEP 1 - 16, SCP 0.5/8 - 32/8, FOX 4 - 16, CAZ 1 - 16, CRO 1 - 32, CXM 4 - 16, CIP 0.5 - 2, ETP 0.5 - 4, GM 2 - 8, IPM 1 - 8, MEM 1 - 8, FM 16 - 64, NOR 2 - 8, TZP 4/4 - 64/4, SXT 1/19 - 4/76, CCX <9, CCZ <9, CPD <9, CAZ <9, CCR <9.





## BD Phoenix™ Streptococci Panel

CAT. NO.	SIZE	DESCRIPTION
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448785	25 panels	BD Phoenix™ Streptococci Panel (SMIC/ID-11)
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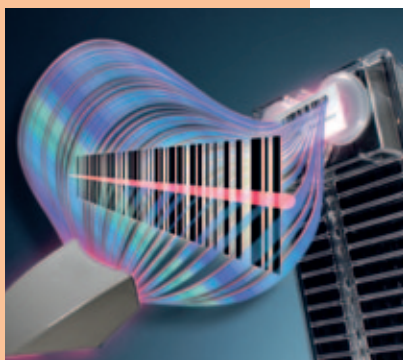
CLSI Standard. List of Antimicrobials (µg/ml): AMX 0.25 - 4, FEP 0.5 - 2, CTX 0.5 - 2, CXM 0.25 - 2, C 2 - 8, CC 0.03125 - 0.5, E 0.0625 - 0.5, GMS 250 - 1000, LVX 0.5 - 4, LZD 0.5 - 4, MEM 0.125 - 2, MXF 0.25 - 2, P 0.03125 - 4, PR 0.25 - 2, TEC 1 - 4, TEL 0.0625 - 2, TE 0.5 - 4, SXT 0.5 - 2, VA 0.5 - 4

246007	100 x 8 ml	BD Phoenix™ - AST-S Broth
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The BD Phoenix™ AST-S broth is modified Mueller Hinton Broth that, after the addition of AST-S indicator and bacterial suspension, is used for susceptibility testing of streptococci by the BD Phoenix™ system. The broth is supplied in screw-cap tubes with a volume of 8.0 ml. 1 tube of AST-S Broth is sufficient to inoculate 1 BD Phoenix™ panel.

246009	10 x 5 ml	BD Phoenix™ - AST-S Indicator
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The BD Phoenix™ AST-S indicator is a redox indicator that, after addition to AST-S broth, is used for susceptibility testing of streptococci by the BD Phoenix™ system. Each 6 ml bottle of AST-S Indicator is sufficient for the inoculation of 100 AST-S Broth tubes, i.e. 1 package (10 bottles) is sufficient for 1000 tubes.



## BD Phoenix™ ID Only Panels

CAT. NO.	SIZE	DESCRIPTION
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448007	25 panels	BD Phoenix™ - Gram Negative ID Panel
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The BD Phoenix™ Gram Negative ID panel is used for the identification of Gram-negative bacteria. The panel consists of 51 wells, 46 of which are filled with dried biochemical substrates and 2 wells with reaction controls. No off-line tests or reagent additions are required for the identification. The BD Phoenix™ system is able to identify approximately 160 Gram-negative strains of clinically relevant bacteria. 25 panels and panel closures are included in each package.

448008	25 panels	BD Phoenix™ - Gram Positive ID Panel
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The BD Phoenix™ Gram Positive ID panel is used for the identification of Gram-positive bacteria. The panel consists of 51 wells, 46 of which are filled with dried biochemical substrates and 2 wells with reaction controls. No off-line tests or reagent additions are required for the identification. The BD Phoenix™ system is able to identify approximately 145 Gram-positive strains of clinically relevant bacteria. 25 panels and panel closures are included in each package.

448316	25 panels	BD Phoenix™ - Yeast ID Panel
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The BD Phoenix™ Yeast ID panel is used for the identification of Yeast and Yeast-like organisms. The panel consists of 51 wells, 46 of which are filled with dried biochemical substrates and 2 wells with reaction controls. No off-line tests or reagent additions are required for the identification. The Phoenix™ system is able to identify approximately 64 clinically relevant Yeast and Yeast-like strains. The Yeast ID panels must be inoculated using a 2.00 - 2.40 McFarland inoculum density, such inoculum density shall be prepared using the BD PhoenixSpec Calibration Standard kit (Cat. No. 441951) and the BD PhoenixSpec Nephelometer.

## BD Phoenix™ AST Only Panels

CAT. NO.	SIZE	DESCRIPTION
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448292	25 panels	BD Phoenix™ Gram Positive AST Only Panel (PMIC-79)
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CLSI Standard. List of Antimicrobials (µg/ml): AM 2 - 8, CZ 2 - 16, FOX 2 - 8, CIP 0.5 - 2, CC 0.5 - 2, DAP 0.5 - 4, E 0.25 - 8, FA 1 - 8, GM 2 - 8, GMS 500, ECC, LVX 0.5 - 2, LZD 1 - 4, MXF 0.25 - 1, MUP 256, FM 16 - 64, OX 0.25 - 2, P 0.0625 - 8, RA 0.5 - 2, TEC 1 - 16, TE 0.5 - 8, SXT 1/19 - 4/76, VA 0.5 - 16.



448294	25 panels	BD Phoenix™ Gram Negative AST Only Panel (NMIC-99)
		CLSI Standard. List of Antimicrobials (µg/ml): AN 8 - 32, AMC 4/2 - 16/8, SAM 4/2 - 16/8, ATM 2 - 16, CZ 2 - 8, FEP 1 - 16, SCP 0.5/8 - 32/8, FOX 4 - 16, CAZ 1 - 16, CIP 0.5 - 2, CL 1 - 4, ETP 0.25 - 1, GM 2 - 8, IPM 0.5 - 8, LVX 1 - 4, MEM 0.5 - 8, TZP 4/4 - 64/4, TIM 8/2 - 128/2. TGC 1 - 4, SXT 1/19 - 4/76, CCX <9, CCZ <9, CPD <9, CAZ <9, CCR <9.
448296	25 panels	BD Phoenix™ Gram Negative AST Only Panel (UNMIC-200)
		Urine Panel. CLSI Standard. List of Antimicrobials (µg/ml): AN 8 - 32, AMC 4/2 - 16/8, SAM 4/2 - 16/8, ATM 2 - 16, CZ 1 - 4, FEP 1 - 16, FOX 4 - 16, CAZ 1 - 16, CRO 1 - 4, CXM 4 - 16, CIP 0.25 - 2, ETP 0.5 - 4, FF 16 - 64, GM 4 - 16, IPM 1 - 4, MEM 0.5 - 4, FM 16 - 64, NOR 2 - 8, TZP 4/4 - 64/4, SXT 1/19 - 4/76, CCX <9, CCZ <9, CPD <9, CAZ <9, CCR <9.

## BD Microtrol™ Quality Control Organisms

### BD Microtrol™ Strains

Microtrol discs are intended for use in microbiological laboratories for the control of test methods. Being 1st generation derivatives traceable to vials of recognised national type culture strains, Microtrol discs are acceptable in accredited laboratories for the production of working stock cultures.

Microtrol discs are freeze-dried microbial preparations manufactured exclusively from ATCC (American Type Culture Collection) cultures. The viability of the organisms is stabilized by the incorporation of activated charcoal in the disc and silica gel with the vials.

CAT. NO.	SIZE	DESCRIPTION
254648	25 discs	<i>Bacillus cereus</i> ATCC® 10876
254612	25 discs	<i>Bacillus subtilis</i> ATCC® 6633
254627 †	10 discs	<i>Bacteroides fragilis</i> ATCC® 25285
254999	25 discs	<i>E. faecalis</i> ATCC® 19433
254625	25 discs	<i>Candida albicans</i> ATCC® 10231
254602	25 discs	<i>E. faecalis</i> ATCC® 29212
254986	25 discs	<i>Escherichia coli</i> ATCC® 25922
254607	25 discs	<i>Escherichia coli</i> ATCC® 35218
257441 †	10 discs	<i>H. influenzae</i> ATCC® 49247
254988	25 discs	<i>K. pneumoniae</i> ATCC® 13883
257419	10 discs	<i>Listeria monocytogenes</i> NCTC 11994
257420	10 discs	<i>N. gonorrhoeae</i> ATCC® 19424
257440	10 discs	<i>Proteus mirabilis</i> ATCC® 14153
254992	25 discs	<i>P. aeruginosa</i> ATCC® 27853
254991	25 discs	<i>Proteus vulgaris</i> ATCC® 13315
254993	25 discs	<i>S. Typhimurium</i> ATCC® 14028
254995	25 discs	<i>S. aureus</i> ATCC® 25923
254996	25 discs	<i>S. aureus</i> ATCC® 29213
254997	25 discs	<i>S. epidermidis</i> ATCC® 12228
257444	10 discs	<i>S. agalactiae</i> ATCC® 13813
254603	25 discs	<i>S. pneumoniae</i> ATCC® 6303
254657	10 discs	<i>S. pneumoniae</i> ATCC® 49619
254604	25 discs	<i>S. pyogenes</i> ATCC® 19615

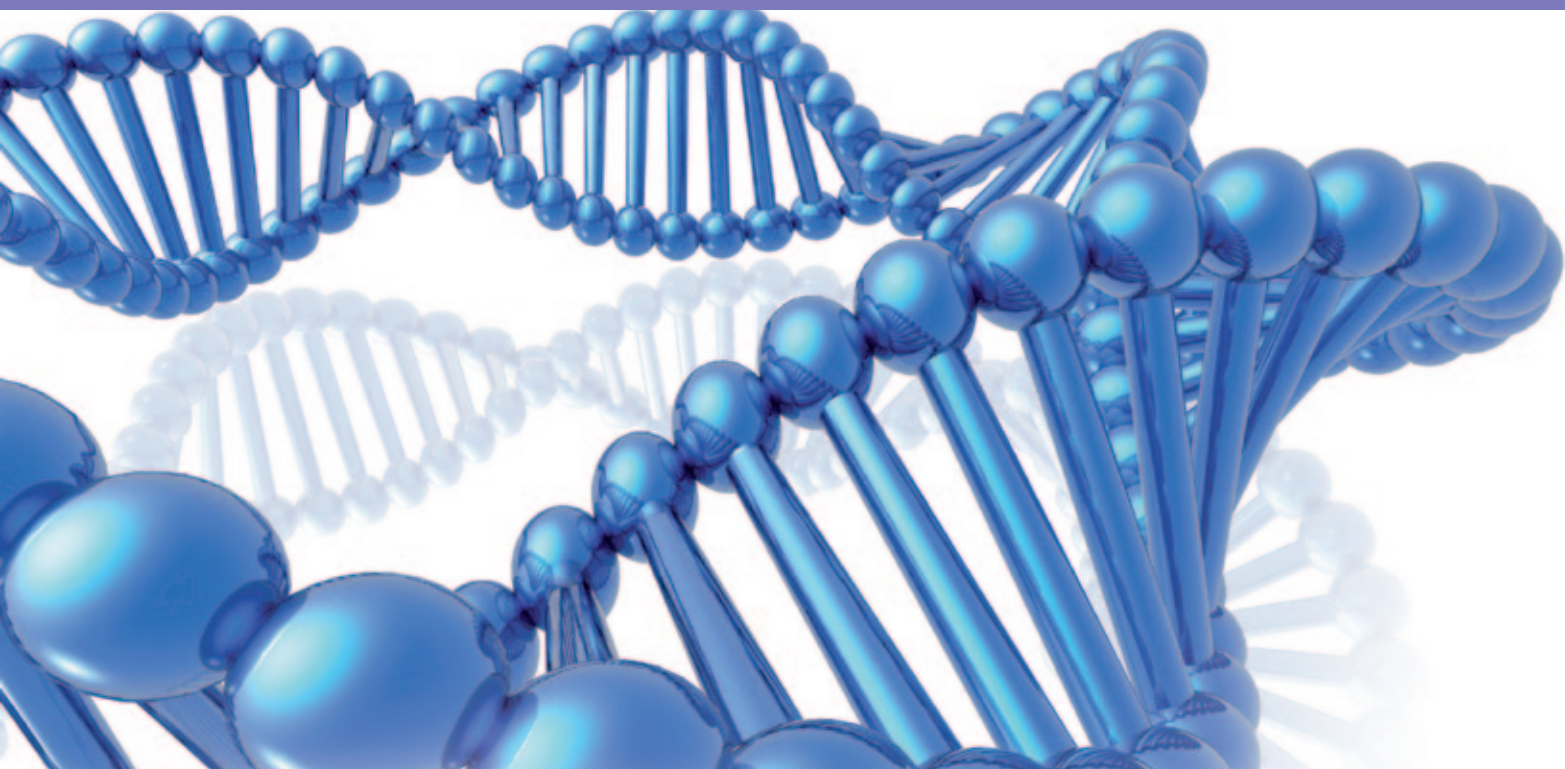
ATCC® strains are listed as a reference only. ATCC® is a registered trademark of the American Type Culture Collection.

† Note that these strains must be stored at -30 C to -15 C.





# Molecular Diagnostics



## **Bacterial Vaginosis Testing**

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## **BD Max™ System**

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BD Diagnostics develops rapid nucleic acid based to increase laboratory efficiency and to provide fast and accurate diagnostic solutions. The BD Affirm™ VP II is the only test able to perform vaginitis/vaginosis simultaneous differential diagnosis by detecting clinically-relevant levels of *G. vaginalis*, *Candida spp.* and *T. vaginalis* from a vaginal specimen.

The BD Max™ is our newest platform that will bring flexibility and efficiency to the laboratory due to the integration of sample processing, RT-PCR setup and amplification/ detection in a single bench top instrument.

# Molecular Diagnostics

## Bacterial Vaginosis Testing

### BD Affirm™ VP III Instrument

CAT. NO.	SIZE	DESCRIPTION
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211918	1	BD MicroProbe™ Processor (BD Affirm™ VP III Instrument 220/240 Volt)
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The BD MicroProbe™ Processor (220/240 Volt) along with the BD Affirm™ VP III Microbial Identification Kit is a hybridization based DNA probe test system that identifies *Candida spp.*, *Gardnerella vaginalis* and *Trichomonas vaginalis*, which are the major causes of vaginitis/ bacterial vaginosis from a single vaginal sample. Total time-to-result is less than one hour and the instrument can simultaneously run up to 6 specimens. The instrument includes a lysis block and program card.

### BD Affirm™ VP III Consumables

CAT. NO.	SIZE	DESCRIPTION
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446252	24 tests	BD Affirm™ VP III - Microbial Identification Kit
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The BD Affirm™ VP III Microbial Identification Test is a DNA probe-based test for the simultaneous, differential detection and identification of *Candida spp.*, *Gardnerella vaginalis*, and *Trichomonas vaginalis*.

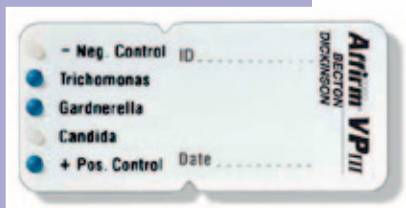
The kit includes 24 tests. Material provided:

- 24 Probe Analysis Cards (PAC),
- 24 reagent cassettes,
- 1 bottle of substrate solution,
- 1 bottle of lysis solution,
- 1 bottle of buffer solution &
- 24 filter tips.

446255	100	BD Affirm™ VP III - Ambient Temperature Transport System
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The BD Affirm™ VP III Ambient Temperature Transport System is a sterile, ready to use system intended for the collection, transport and preservation of vaginal specimens and is only for use with the BD Affirm™ VP III Microbial Identification Test.

This system should be used with those specimens where transport times are expected to exceed 1 h at ambient temperature or 4 h at refrigerated temperatures. The BD Affirm™ VP III Ambient Temperature Transport System is designed to stabilize the nucleic acid of *Candida* species, *Gardnerella vaginalis*, and *Trichomonas vaginalis* during specimen transport at ambient transport (15 - 30° C) for up to 72 h.



# BD Max™ System

## BD Max™ Instrument

CAT. NO.	SIZE	DESCRIPTION
441916	1	BD MAX™ System

BD MAX™ is the first fully automated open platform for real-time DNA amplification assays. All steps - sample processing, PCR setup and amplification/detection - are integrated into a compact bench top unit that allows the implementation of multiple assay formats, both commercial and in-house developed assays. Moreover, there are 5 fluorescence channels available which will allow for direct measurement of multiple targets within the same sample. The unitized extraction reagents and unique microfluidic technology simplifies operation to 1 pipetting step and eliminates the risk of amplified PCR contamination. Capacity is flexible and adaptable to laboratory demand, from 1 to 24 specimens per run and up to 120 specimens per day.



## BD Max™ IVD Assays

CAT. NO.	SIZE	DESCRIPTION
442554	24 tests	BD MAX™ MRSA Assay

The BD MAX™ MRSA Assay performed on the BD MAX™ System is an automated qualitative in vitro diagnostic test for the direct detection of Methicillin-resistant *Staphylococcus aureus* (MRSA) DNA from nasal swabs in patients at risk for nasal colonization. The test utilizes real-time polymerase chain reaction (PCR) for the amplification of MRSA DNA and fluorogenic target specific hybridization probes for the detection of the amplified DNA. Each test includes an internal process control for both the DNA extraction and PCR reaction.

442555	24 tests	BD MAX™ Cdiff Assay
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The BD MAX™ Cdiff Assay performed on the BD MAX™ System is an automated qualitative in vitro diagnostic test for the direct detection of *C. difficile* toxin B gene (tcdB) in human liquid or soft stool specimens from patients suspected of having Clostridium difficile-associated disease (CDAD). The test utilizes real-time polymerase chain reaction (PCR) for the amplification of toxin B gene DNA and fluorogenic targets specific hybridization probes for the detection of the amplified DNA. Each test includes an internal process control for both the DNA extraction and PCR reaction.

437519	24 cartridges	BD MAX™ Microfluidic Cartridges
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Microfluidic cartridge for RT-PCR incorporates a proprietary design that allows for rapid amplification and sensitive detection. Each cartridge is build with 24 independently controlled reaction chambers.



## BD Max™ Open System Reagents

CAT. NO.	SIZE	DESCRIPTION
Enquire		BD MAX™ Extraction Kits

The BD MAX™ Extraction Kits are used with the BD MAX System to extract bacterial and viral DNA/RNA/TNA from several specimen types. Purified nucleic acid obtained with the BD MAX Extraction Kits may be analyzed using the BD MAX System or another commercially available system for nucleic acid amplification and detection. For more details please contact your local BD office or partner.

Enquire		BD MAX™ Master Mix
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A lyophilized PCR reagent mix containing dNTPs, MgCl<sub>2</sub>, DNA polymerase, buffers, as well as a primer & probe which can be used as an internal process control. For more details please contact your local BD office or partner.

437519	24 cartridges	BD MAX™ Microfluidic Cartridges
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Microfluidic cartridge for RT-PCR incorporates a proprietary design that allows for rapid amplification and sensitive detection. Each cartridge is build with 24 independently controlled reaction chambers.





# Cervical Cytology Screening



## Cytology Sample Preparation

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## Cytology Slide Preparation

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## Cytology Screening

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We are committed to developing and providing the pathology laboratory with advanced instruments and reagents to improve laboratory performance and workflow while simultaneously improving disease detection.

The BD SurePath™ liquid-based Pap test is the only FDA-approved Pap test which ensures 100% of the sample collected is sent to the lab for processing and analysis. In the lab the BD SurePath™ Cell Enrichment Process helps in eliminating up to 80% of the obscuring material, enabling the pathologist to easily visualize the diagnostically relevant cells. Our range of laboratory equipment including the BD PrepStain™ Slide Processor and BD FocalPoint™ Slide Profiler will improve the laboratory workflow and productivity by allowing to focus the pathologist's time on those slides with the highest probability of containing an abnormality.

# BD TriPath Cervical Cytology

## Cytology Sample Preparation

### BD SurePath™ LBC Kit for PrepStain™ System

CAT. NO.	SIZE	DESCRIPTION
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490523	480 tests	BD SurePath™ GYN Test Kit Lab Pack for BD PrepStain™ System
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The BD SurePath™ liquid-based Pap test is an FDA approved thin-layer cell preparation process intended for use in the screening and detection of cervical cancer, pre-cancerous lesions, atypical cells and all other cytologic categories as defined by The Bethesda System for Reporting Cervical/Vaginal Cytologic Diagnoses.

Kit contains:

- 5 x 96 Aspirator Tips
- 1 x 480 Centrifuge Tubes
- 4 x 480 Density Reagent Bottles
- 5 x 96 Disposable Transfer Tips
- 2 x 240 BD PrepMate™ Syringes
- 2 x 240 Settling Chambers
- 8 x 60 BD SurePath™ PreCoat Slides

490527	20 x 25 vials	BD SurePath™ Vials
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490536	2 bottles	BD PrepStain™ Cytology Stain Kit
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Kit contains:

- 1 x 480 ml EA/OG Stain
- 1 x 480 ml Hematoxylin Stain 0.75

### BD SurePath™ LBC Kit for Manual Method

CAT. NO.	SIZE	DESCRIPTION
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490529	480 tests	Manual Method BD SurePath™ GYN Test Kit for BD PrepMate™ System
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The BD SurePath™ liquid-based Pap test is an FDA approved thin-layer cell preparation process intended for use in the screening and detection of cervical cancer, pre-cancerous lesions, atypical cells and all other cytologic categories as defined by The Bethesda System for Reporting Cervical/Vaginal Cytologic Diagnoses.

Kit contains:

- 5 x 96 Aspirator Tips
- 1 x 480 Centrifuge Tubes
- 4 x 480 ml Density Reagent
- 2 x 240 BD PrepMate™ Syringes
- 2 x 240 Settling Chambers
- 8 x 60 BD SurePath™ PreCoat Slides
- 1 x 500 BD SurePath™ Vials



## BD CytoRich™ Non-Gyn LBC Kits

BD CytoRich™ Preservative is an ethanol based fixative system that is used to collect, preserve, hemolyse, transport and transfer cytology specimens to a glass slide. Suitable for washings, brushings (and other abrasive collection methods), body fluids (hypercellular, hypocellular, bloody or neat), sputums, aspiration and biopsies.

CAT. NO.	SIZE	DESCRIPTION
490533	480 tests	Non-Gyn Blue Test Kit for BD PrepStain™ System  The BD CytoRich™ Blue Preservative is a general purpose cell preservative, excellent for urine and non-haemolytic samples. It is recommended for use as a general cytology preservative. Kit contains: 1 x 480 Centrifuge Tubes 2 x 3600 ml BD CytoRich™ Blue Preservative 5 x 96 Disposable Transfer Tips 1 x 480 ml EA/OG Stain 1 x 480 ml Hematoxylin Stain 0.5 8 x 60 BD SurePath™ PreCoat Slides 2 x 240 Settling Chambers
490534	480 tests	Non-Gyn Red Test Kit for BD PrepStain™ System  The BD CytoRich™ Red Preservative solubilises protein and lyses red blood cells. It is excellent for fine needle aspirations and general non-gyn cell preservation, providing extended sample stability. Kit contains: 1 x 480 Centrifuge Tubes 2 x 3600 ml BD CytoRich™ Red Preservative 5 x 96 Disposable Transfer Tips 1 x 480 ml EA/OG Stain 1 x 480 ml Hematoxylin Stain 0.5 8 x 60 BD SurePath™ PreCoat Slides 2 x 240 Settling Chambers

## BD SurePath™ Reagents and Disposables

CAT. NO.	SIZE	DESCRIPTION
490524	500 brushes	Cervex-Brush for Specimen Collection (Rover Medical Devices BV)  Polyethylene brush of 20 cm long. The upper part is detached into the BD SurePath™ Vial after specimen collection. The Cervex-Brush consists of flexible bristles of various lengths which allow collection of cells from the endocervical canal, the ectocervical area and transformation zone at the same time. Check availability in your Country.
490526	500 brushes	Cervex-Brush Combi for Specimen Collection (Rover Medical Devices BV)  Polyethylene brush of 20 cm long. The upper part is detached into the BD SurePath™ Vial after specimen collection. The Cervex-Brush Combi consists of flexible bristles of various lengths which allow collection of cells from the endocervical canal, the ectocervical area and transformation zone at the same time. Check availability in your Country.
490505	100	BD SurePath™ Preservative Vial Cap
490506	3600 ml	Alcohol Blend Rinse
490507	3600 ml	BD SurePath™ Preservative
490508	3600 ml	BD CytoRich™ Red Preservative Fluid
490509	3600 ml	BD CytoRich™ Blue Preservative Fluid
490510	1 x 96	Easy Aspirator Tips (box of 96 tips)
490511	60 slides	BD SurePath™ PreCoat slides
490513	1 x 96	Disposable Transfer Tips
490514	1 x 96	Centrifuge Tubes
490517	1 x 240	Centrifuge Tubes
490518	1	Buffered TRIS (to prepare 18 L)
490521	480 ml	BD PrepStain™ Density Reagent
490522	25 vials	BD SurePath™ Vials
490527	500 vials	BD SurePath™ Vials
490625	1 x 88	Vial Packaging, Clam Shell

## BD SurePath™ Reagents and Disposables, cont...

CAT. NO.	SIZE	DESCRIPTION
490536	2 bottles	GYN Cytology Stain Kit Kit contains: 1 x 480 ml EA/OG Stain 1 x 480 ml Hematoxylin Stain 0.75
490537	2 bottles	Non-GYN Stain Kit Kit contains: 1 x 480 ml EA/OG Stain 1 x 480 ml Hematoxylin Stain 0.5

## Cytology Slide Preparation

### BD PrepStain™ Slide Processor & Manual Systems

The PrepStain™ System is a liquid-based thin layer cell preparation process. The PrepStain™ System produces SurePath™ slides that are intended as replacements for conventional gynecologic Pap smears. SurePath™ slides are intended for use in the screening and detection of cervical cancer, pre-cancerous lesions, atypical cells and all other cytologic categories as defined by The Bethesda System for Reporting Cervical/Vaginal Cytologic Diagnoses.

\*These systems consist of multiple catalogue numbers so please contact your local sales representative for ordering information.

CAT. NO.	SIZE	DESCRIPTION
Enquire*		BD PrepStain™ Slide Processor System with Centrifuge Complete system for automated slide preparation.
Enquire*		BD PrepStain™ Slide Processor System without Centrifuge System for automated slide preparation, without a centrifuge.
Enquire*		Manual Method System with Centrifuge System for manual slide preparation, including centrifuge.
Enquire*		Manual Method System without Centrifuge System for manual slide preparation, without a centrifuge.

## Cytology Screening

### BD FocalPoint™ Imaging System

The BD FocalPoint™ is an automated cervical cytology screening device intended for use in initial screening of cervical cytology slides. The BD FocalPoint™ identifies up to 25% of successfully processed slides as requiring no further review. The BD FocalPoint™ also identifies at least 15% of all successfully processed slides for a second manual review.

\*These systems consist of multiple catalogue numbers so please contact your local sales representative for ordering information.

CAT. NO.	SIZE	DESCRIPTION
Enquire*		BD FocalPoint™ Slide Profiler Complete system for slide imaging.
Enquire*		BD FocalPoint™ Review Station Microscope auto stage, computer, monitor, printer and accessories.

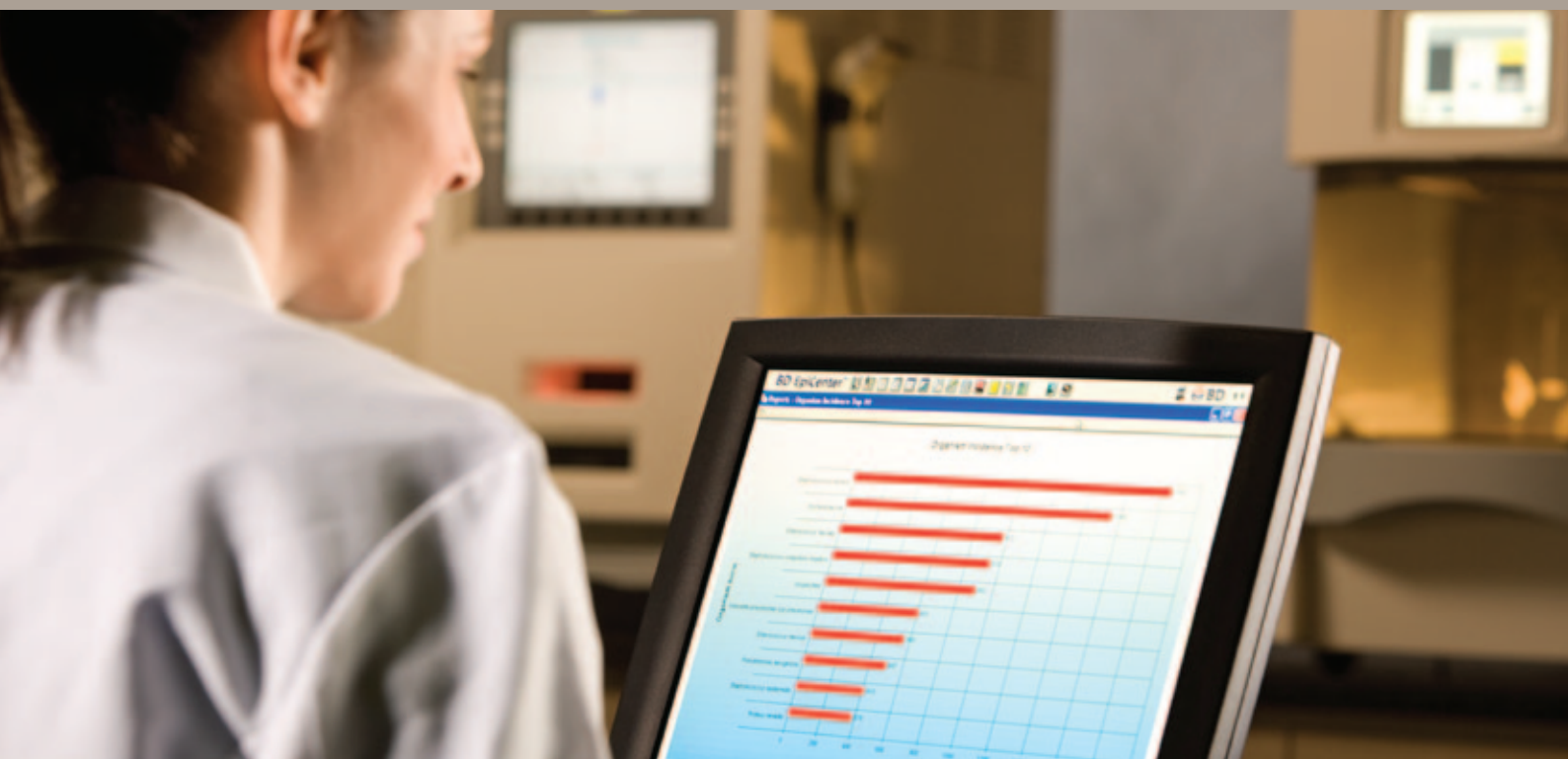








# Data Management, Statistics & Epidemiology



## **BD EpiCenter™ Advanced Data Management System**

BD EpiCenter™ for BD BACTEC™ FX . . . . .	76
BD EpiCenter™ for BD BACTEC™ MGIT™ 960 and 320 . . . . .	76
BD EpiCenter™ for BD Phoenix™ . . . . .	77

BD EpiCenter™ software provides advanced data management for all BD Microbiology systems. The software improves instrument workflow and delivers workload and epidemiology reporting.

The basic configuration of the software provides all the communication and reporting capabilities optimized for supporting BD BACTEC™ FX and BD BACTEC MGIT™ systems.

The PLUS configuration of EpiCenter software provides support for both manual and automated microbiology testing and is optimized for use with the BD Phoenix™ ID and Susceptibility System. This configuration enables users to customize the test menu and to develop additional custom epidemiology reports using the included software customization programming.

# BD EpiCenter™ Advanced Data Management System



## BD EpiCenter™ for BD BACTEC™ FX

CAT. NO.	SIZE	DESCRIPTION
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441007	1	BD EpiCenter™ - Data Management System, Software
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The BD EpiCenter™ is the ideal clinical data management solution for use with BD BACTEC™ FX. It is a companion workstation that is easily configured to meet the every day operational needs of the microbiology laboratory and improve the workflow. The BD EpiCenter™ is designed to connect additional BD BACTEC™ instruments in a plug-and-play manner and to store additional test results when a positive vial is detected. These results can either be entered manually (e.g. Gram Stain), come from other BD instruments (e.g. Identification) or come from your Laboratory Information System (LIS).

BD EpiCenter™ easily connects to LIS to exchange and combine patient data results in real time, thereby enhancing safety, patient management and optimizing the work processes.

256644	1	BD EpiCenter™ - Workstation
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256645	1	BD EpiCenter™ - 17 inch Monitor
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256628	1	BD EpiCenter™ - Starter Kit
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Includes: Network cables, ties, power cord, micro hub, bar code gun, security key, DVD discs, DVD rack, Software, card NIC 3 Com

441107	1	BD EpiCenter™ - Updater Disk (PUD)
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## BD EpiCenter™ for BD BACTEC™ MGIT™ 960 and 320

CAT. NO.	SIZE	DESCRIPTION
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441007	1	BD EpiCenter™ - Data Management System, Software
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BD EpiCenter™ system is the ideal clinical data management system designed for use with BD BACTEC™ MGIT™ 960 System instruments and your Laboratory Information System (LIS). It is a companion workstation that is easily configured to meet the every day operational needs of the mycobacteriology laboratory.

It provides you with bar code scanning and real time LIS communication capabilities, thereby enhancing safety and optimizing your work processes. Its long-term database consolidates data generated either by your BD instruments (Growth and Detection MGIT tubes, Antimicrobial Susceptibility Test sets), your LIS or manually entered data (e.g. Acid Fast Smear result when a Growth and Detection MGIT™ tube is detected positive). It includes a modern graphical user interface tool to examine and validate your mycobacteria data, track susceptibility patterns and ensure better follow up and improved patient care.

256644	1	BD EpiCenter™ - Workstation
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256645	1	BD EpiCenter™ - 17 inch Monitor
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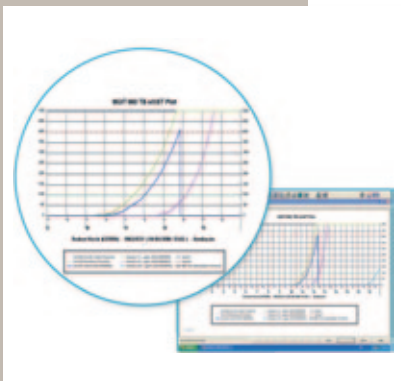
256628	1	BD EpiCenter™ - Starter Kit
--------	---	-----------------------------

Includes: Network cables, ties, power cord, micro hub, bar code gun, security key, DVD discs, DVD rack, Software, card NIC 3 Com

441107	1	BD EpiCenter™ - Updater Disk (PUD)
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	1	BD EpiCenter™ TB-eXiST Module
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The TB eXiST module (eXtended individual Susceptibility Testing) on the BD EpiCenter™ offers the possibility to test and report various first and second-line drugs. The module allows extending the protocol length beyond 13 days in order to accommodate slow growing resistant Mycobacteria isolates. Its virtually unlimited combination of testing existing and potential new drugs at different concentrations makes it a unique solution for the standardization of 2nd line drug susceptibility. TB eXiST will significantly facilitate and improve the testing and reporting of 2nd-line drug results with the BD BACTEC™ MGIT™ 960 / 320. The BD EpiCenter™ TB eXiST module needs to be equipped with the Barcode Printer Kit (cat.no. 257445) which prints barcodes with the patient name, accession number, and drug name, and concentration.



## BD EpiCenter™ for BD Phoenix™

CAT. NO.	SIZE	DESCRIPTION
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441007	1	BD EpiCenter™ - Data Management System, Software
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The field of clinical microbiology is becoming increasingly complex due to the volume of information that is handled, the emergence of new practices and of a growing number of drugresistant organisms, and the importance of examining and tracking the epidemiology of infectious diseases within the hospital, health-care system, or community.

Within this context, BD EpiCenter™ is the ideal clinical data management system designed for use with BD Phoenix™ instrument systems. It provides the microbiology laboratory with workflow management, patient demographic storage, advanced query and reporting for data generated by BD Phoenix™ instrument systems and completed by other microbiology tests. BD EpiCenter™ is an effective data-mining tool designed to assist you in examining the epidemiology of infectious diseases within your microbiology laboratory and in improving patient care. BD EpiCenter™ incorporates the BDxpert™ system which enforces integrity of the result data. Modern reporting tools make the BD EpiCenter™ system an easy and effective way to evaluate and share complex data generated in the clinical microbiology laboratory.

256644	1	BD EpiCenter™ - Workstation
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256645	1	BD EpiCenter™ - 17 inch Monitor
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256628	1	BD EpiCenter™ - Starter Kit
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Includes: Network cables, ties, power cord, micro hub, bar code gun, security key, DVD discs, DVD rack, Software, card NIC 3 Com

441107	1	BD EpiCenter™ - Updater Disk (PUD)
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	1	BD EpiCenter™ PLUS - Activation Module
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Enhancing module for the EpiCenter Data Management System. Includes the Epidemiology and Surveillance packages as well as additional filter and reports. Users can configure their own manual tests, new filters, and new reports. A bidirectional LIS interface is also included.

	1	BD EpiCenter™ EpiCare™ (Clinical Application Rules Editor) - Open Expert System Module
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BD EpiCARE™ is an open expert system which allows the lab to develop their own rules to ensure more reliable test results according to the laboratory practices, specific requirements and local guidelines and to track and alert in real time when specific isolates detected require focus. It provides microbiologists a tool to author their own set of expert rules with an intuitive user interface. For example, one can suppress a drug, change a susceptibility interpretation, detect a specific phenotype and generate an alert. Furthermore, it features the possibility to test/debug newly created rules before using them on clinical results.



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## Ordering Procedure

Specific ordering procedures differ worldwide. Not all products listed in this catalog are available in all countries. Please consult your local office for the appropriate information.

## Non-Product Portfolio Products

Inquiries or requests regarding packaging or product variations not appearing in this product portfolio should be directed to your local BD or Distributor Sales Representative or BD Diagnostic Systems Technical Service.

## Technical Information and Equipment Repair

Specific communication and information procedures for technical information and equipment repair differ worldwide. Please consult your local office for the appropriate information.

## World Wide Web

[www.bd.com](http://www.bd.com) or [www.bd.com/ema](http://www.bd.com/ema) or [www.bd.com/ds](http://www.bd.com/ds)

## ISO Registration

BD Diagnostic Systems products are manufactured in ISO 9000 registered facilities. Specific ISO 9000 registrations per manufacturing facility location include:

Madison, Wisconsin, USA	ISO 9002
Cayey, Puerto Rico	ISO 9002
Sparks, Maryland, USA	ISO 9001
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Heidelberg, Germany	ISO 9002



For specific certificates of ISO registration, please contact your local office. Or visit [www.bd.com/europe/regulatory](http://www.bd.com/europe/regulatory)

Frequently needed regulatory documents and certificates (ISO Certificates, MSDS, Instructions for Use, Certificates of Analysis, Declarations of Conformity, Industry Specific) can also be downloaded from: [www.bd.com/europe/regulatory](http://www.bd.com/europe/regulatory)

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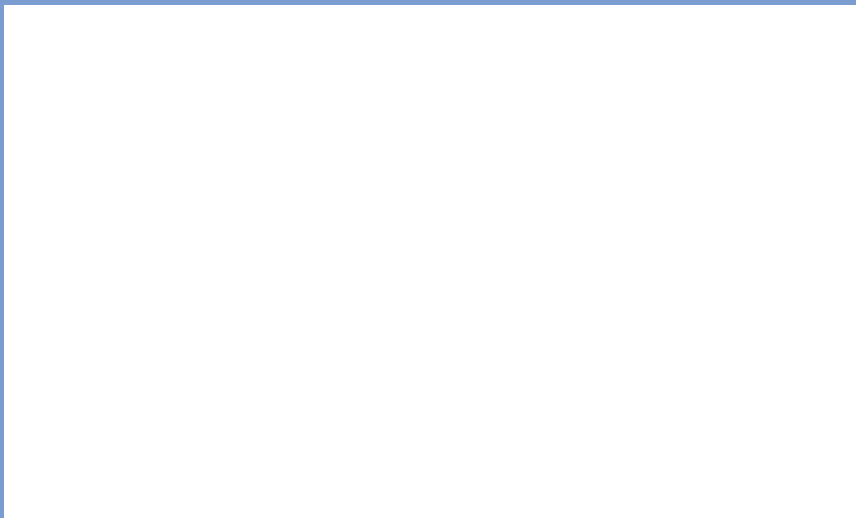
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