

# BD Phoenix™ Automated Microbiology

Accurately<sup>1</sup> detect  
antimicrobial resistance  
with confidence



# Compact integration of ID/AST systems

The BD Phoenix™ M50 Instrument with the BD Bruker MALDI Biotyper™ Instrument

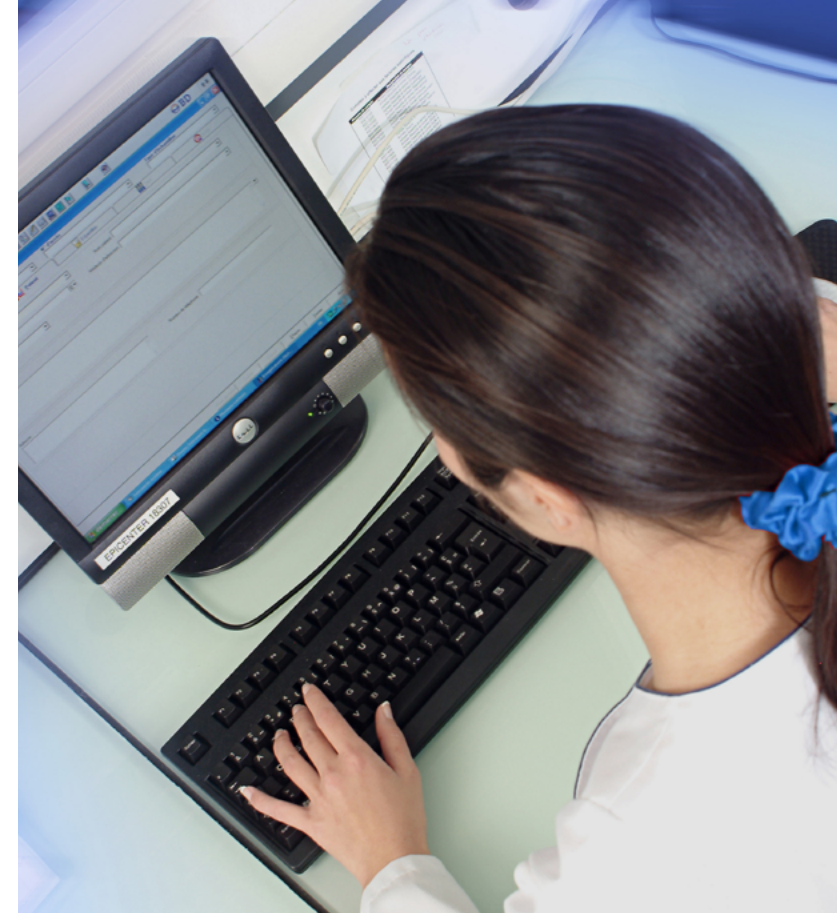
Identification

Accuracy

Efficiency

Reporting

State of the art Mass Spectrometry identification coupled with accurate resistance<sup>1</sup> detection not only supports your goal to improve laboratory efficiency, but also gives you the confidence you need to accelerate ID result reporting.<sup>2</sup>



The BD EpiCenter™ Data Management System offers an easy and intuitive plate mapping solution. It also enables smooth integration of Bruker-generated IDs with BD Phoenix™ M50 instrument-generated MICs for a complete susceptibility profile.

# Emerging resistance detection

For timely therapeutic intervention and infection control:



Confirm known resistance



Detect emerging resistance



Detect and classify CPOs



Re-configuring unnecessary

The BD Phoenix™ System has demonstrated performance<sup>1</sup> in detecting resistance. This aids in a timely and appropriate patient therapeutic intervention.

The BD Phoenix™ M50 system panels test for several resistance markers,<sup>2</sup> such as:

HLAR - High Level Aminoglycoside Resistant Enterococcus

iMLSb - Inducible Clindamycin Resistance

MRSA - based on Oxacillin Interpretation with Staphylococcus aureus

mecA - detection of mecA-mediated resistance in Staphylococcus aureus

BL-Staph  $\beta$ -Lactamase (Nitrocefin based test)

VRSA - Vancomycin- Resistant Staphylococcus aureus

VRE - based on Vancomycin interpretation

CPO - Carbapenemase-producing organism

ESBL - Offered on Gram-negative panels



<sup>1</sup> Depending on BD Phoenix™ panel type and organism identification.

Health care institutions need to be able to accurately detect and intervene to prevent the spread of Carbapenemase-producing organisms (CPOs), thus contributing in the preservation of current antibiotic options. BD Phoenix™ CPO Detect Test provides fast, accurate, and efficient detection and confirmation of CPOs to support infection control.<sup>3</sup>



# Workflow

## Ease of use

BD Phoenix™ workflow is based on advanced panel and instrument designs that ensure:



All panels and broths are stored at room temperature



Flexible inoculum density (0.25 or 0.5 McFarland)



No reagent addition to panel, allowing an effortless workflow and simplified logistics



No off-line tests, ensuring optimised workflow



Panels are sealed after inoculation, ensuring safe handling



ID-only, combo or AST-only panels available to suit your laboratory needs



# BD Phoenix™ AP workflow efficiency

## The BD Phoenix™ M50 Instrument with the BD Phoenix™ AP Instrument



Reduce panel preparation time



Incorporate automated nephelometry

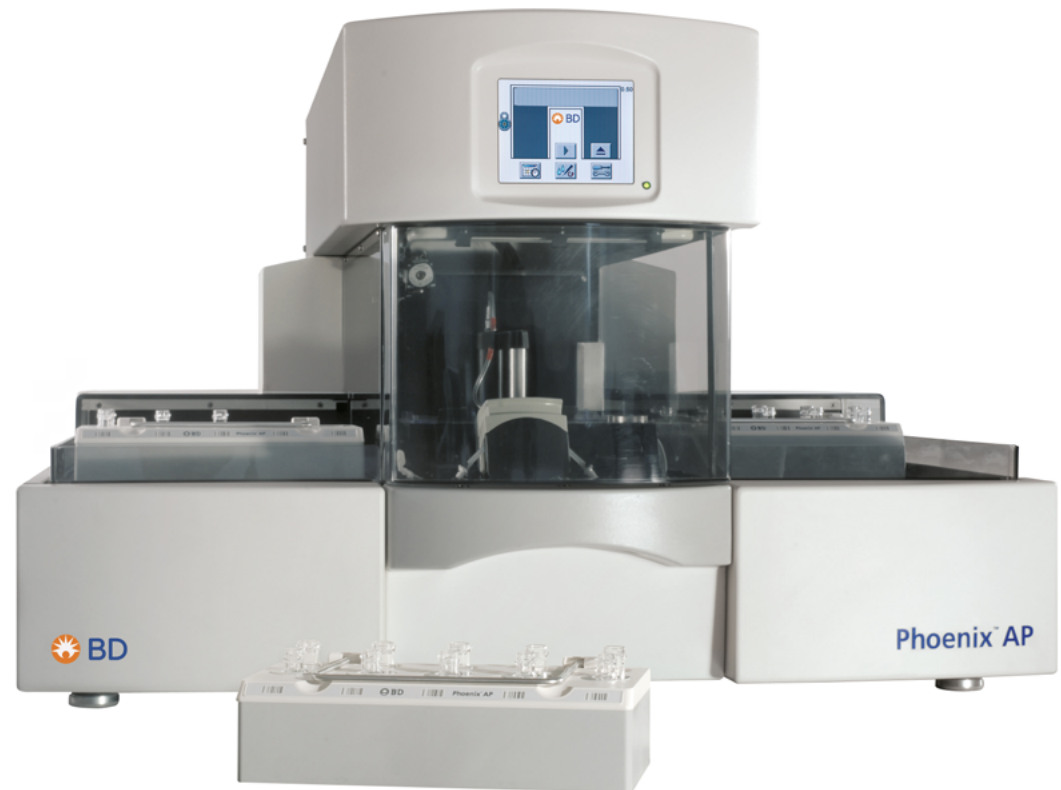


Standardise inoculum preparation

BD Phoenix™ AP complements BD Phoenix™ M50 by reducing panel preparation time<sup>4</sup>, standardising inoculum preparation and incorporating automated nephelometry.

The BD Phoenix™ AP automated inoculation preparation instrument may help to reduce sample preparation workflow burdens, reducing total hands-on time per sample by 50% compared to manual BD Phoenix™ preparation and by an average of 20% compared to selected competitive products.<sup>4</sup>

The BD Phoenix™ AP instrument is capable of processing a starting McFarland of 0.20 to 4.0 to the appropriate testing McFarland, and can increase the consistency of the isolate preparation.



# BD EpiCenter™ Data Management System

An integral component of the BD Phoenix™ M50, generate real-time data that may help impact patient care:



Timely monitoring, analysis and communication

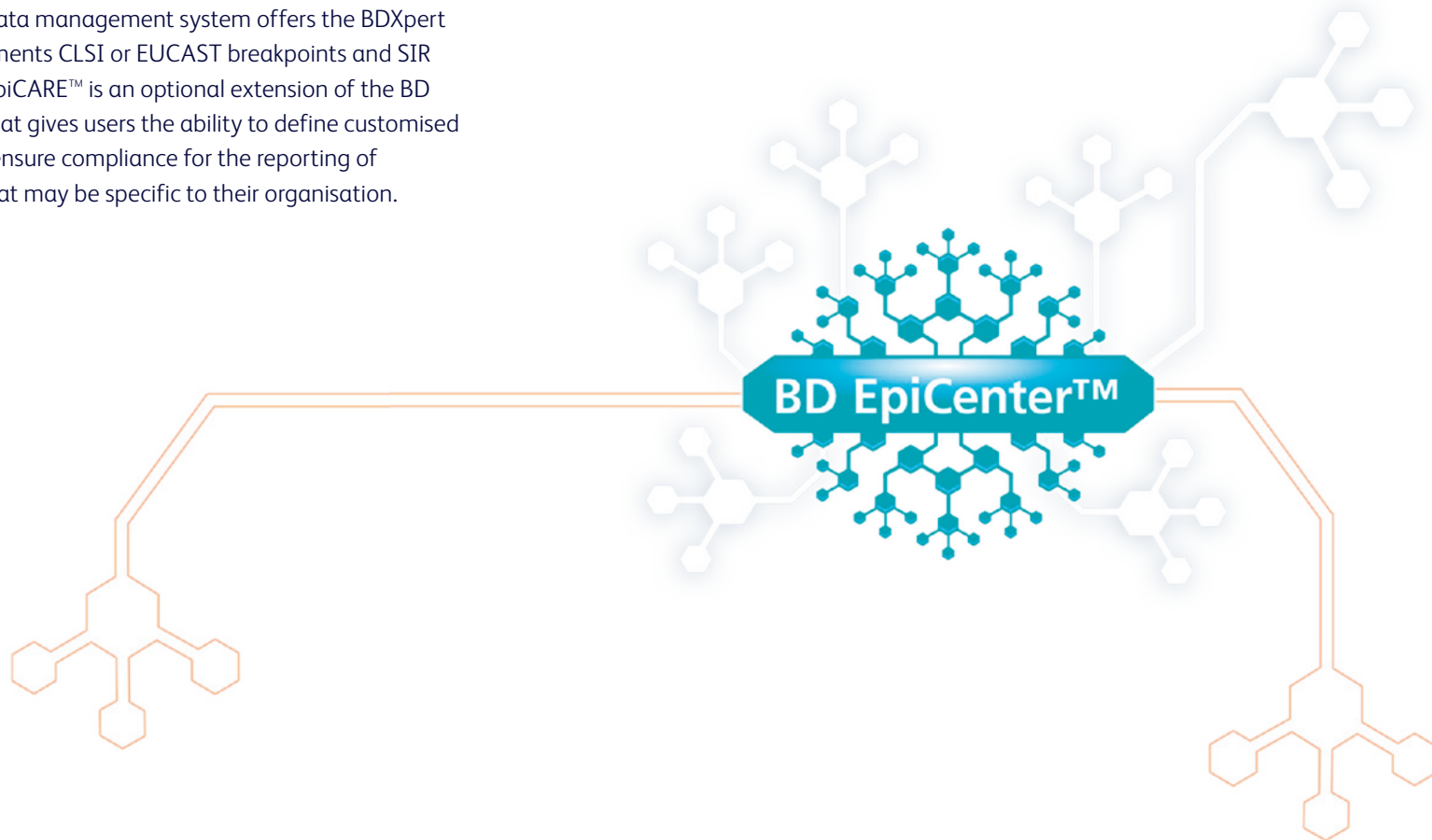


Reduction of labour-intensive tasks

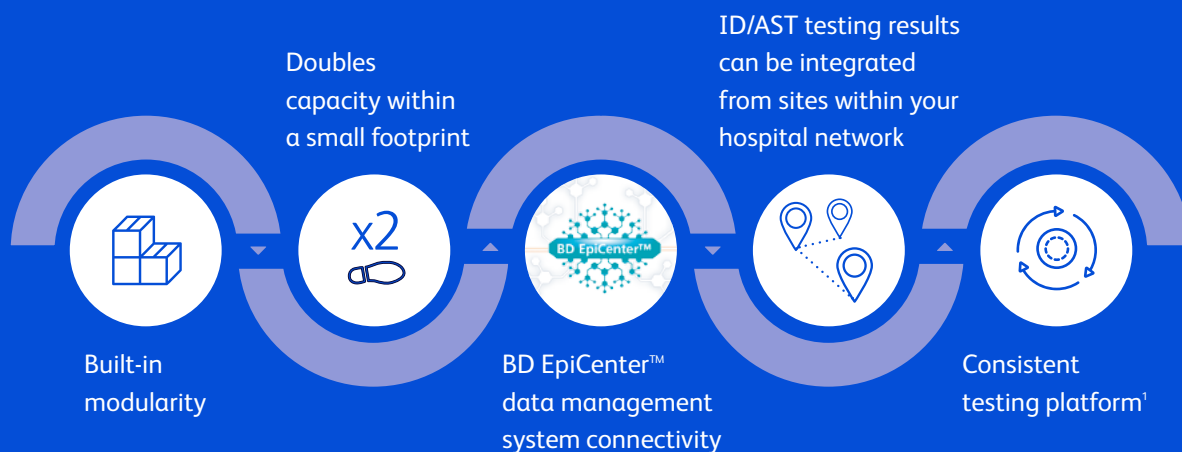


Rapid communication of Maldi ID results

The BD EpiCenter™ data management system offers the BDxpert system, which implements CLSI or EUCAST breakpoints and SIR interpretations. BD EpiCARE™ is an optional extension of the BD EpiCenter™ system that gives users the ability to define customised rules and actions to ensure compliance for the reporting of microbiology data that may be specific to their organisation.



The BD Phoenix™ M50 system delivers the performance<sup>1</sup>, connectivity and functionality required by clinical laboratories today, in a compact and modular format.



## BD Phoenix™ M50 Instrument

Experience built-in modularity with the BD Phoenix™ M50 ID/AST system. Whether your ID/AST testing volume is increasing or highly variable, the BD Phoenix™ M50 Instrument adapts easily by doubling capacity within a small footprint. It's as simple as stack, plug and work.

The BD Phoenix™ M50 has been designed with a touch screen interface available in several languages and embedded with the BDXpert system. Up to two units can be stacked to best fit different testing needs while minimal maintenance is required (no reagents, pumps or waste to maintain).



# BD Phoenix™ M50 Instrument

Demonstrated performance<sup>1</sup>, connectivity and functionality, in a compact and modular format for optimal flexibility and performance in an identification and susceptibility test system.

## Instrument specifications

Physical Dimensions and Power Requirements	BD Bruker MALDI Sirius™	Single BD Phoenix™ M50 Instrument with PC	BD Phoenix™ AP System
Height	107 cm	53.5 cm	61 cm
Width	50 cm	136 cm	84 cm
Depth	71 cm	76.5 cm	81.5 cm
Clearance (left)	50 cm	7.62 cm	7.6 cm
Clearance (front)	50 cm	45.72 cm	40.7 cm
Weight	75 kg	54.5 kg	90.7 kg
Power Requirements	220-230VAC ± 10%, 50 Hz 10 amp Circuit	90-264 VAC; 47-63Hz 15 amp circuit	100-240 VAC; 50-60Hz 6.3 amp circuit







1. Giani T, Morosini MI, D'Andrea MM, García-Castillo M, Rossolini GM, Cantón R. Assessment of the Phoenix™ automated system and EUCAST breakpoints for antimicrobial susceptibility testing against isolates expressing clinically relevant resistance mechanisms. *Clin Microbiol Infect.* 2012 Nov;18(11):E452-8. doi: 10.1111/j.1469-0691.2012.03980.x. Epub 2012 Aug 22. PMID: 22909279.
2. K. E. Tan, B. C. Ellis, R. Lee, P. D. Stamper, S. X. Zhang and K. C. Carroll. Prospective Evaluation of a Matrix-Assisted Laser Desorption Ionization–Time of Flight Mass Spectrometry System in a Hospital Clinical Microbiology Laboratory for Identification of Bacteria and Yeasts: a Bench-by-Bench Study for Assessing the Impact on Time to Identification and Cost-Effectiveness. *Journal of Clinical Microbiology.* October 2012 Volume 50 Number 10
3. Croxatto et al, Evaluation of the BD Phoenix™ CPO detect the detection of carbapenemase producers. *Clinical Microbiology and Infection* 26 (2020).
4. Junkins A, et al. Comparison of BD Phoenix™ AP Workflow with Vitek 2. *J. Clin. Microbiol.* 2010. 48 (5): 1929-1931

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