



Transforming microbiology. Improving laboratory outcomes.

BD Kiestra™ IdentifA and SusceptA
Automating and innovating the MALDI-TOF and susceptibility workflow

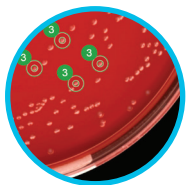
Achieve unmatched integration of MALDI-TOF and antimicrobial susceptibility testing with isolate integrity through a single isolate suspension



Discover the power of a single suspension for isolate integrity for identification and antimicrobial susceptibility testing

- Designed to turn around laboratory results quickly through an automated and standardised workflow with minimal hands-on time.
- Ensure high-quality identification and susceptibility results by utilising the same colony for both MALDI-TOF and antimicrobial susceptibility testing.
- Integrate and automate laboratory Standard Operating Procedures (SOP) while maximising flexibility with a single suspension.

BD Kiestra™ IdentifA automatically picks user selected colonies and creates a single suspension to deliver test-results from the same isolates for MALDI-TOF and antimicrobial susceptibility testing, using the following process



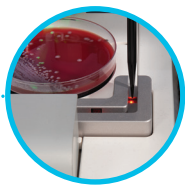
Digital colony marking

Precise colony marking utilising a visual “safe zone”



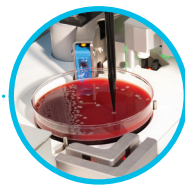
Plate identification and orientation

Barcode-driven plate orientation confirming colony coordinates



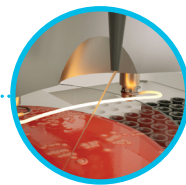
Pipette tip calibration

Calibrated pipette tips support accuracy and precision for colony picking and spotting



Level sensing and colony picking depth

Colony-level sensing through conductive pipette tips



Muroid strain detection and processing

Active muroid strain detection, cutting and processing



Single suspension creation

Single isolate suspension created in 300 µl of deionised water

Provide greater efficiency by reducing labor and processing errors

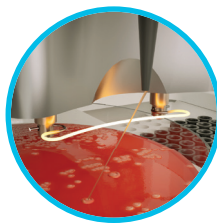
- Help increase capacity and maximise staff effectiveness to manage an increasing workload.
- Start MALDI-TOF and antimicrobial susceptibility testing with less growth than traditional methods to reduce time to reporting.
- Designed to eliminate rework and manual steps to maintain control of laboratory performance.

BD Kiestra™ IdentifA is designed to support your workload for routine and challenging isolates, including mucoid strains



EVERYDAY ISOLATE TYPES

● Routine ● Gram positive ● Gram negative ● Yeast



Process mucoid organisms

The BD Kiestra™ IdentifA actively detects and cuts mucoid strains for all sample types. A mucoid mixing routine is then applied to create a single suspension for MALDI-TOF and susceptibility testing.

Process low-growth organisms

Start isolate work-up with less colonies than manual method due to new, innovative technology.



Scant colony growth

Read and work up isolates with BD Kiestra™ ReadA and high-resolution imaging



>0.5-millimeter colony picking

Pick colonies as small as 0.5 mm in diameter



Low-volume nephelometry

Built-in automated nephelometry of single suspension



Layering technology

Apply multiple layers of the suspension to get the answer the first time without delay



Susceptibility testing with BD Phoenix™

Maximise performance and combine with BD Phoenix™ to fully automate all steps in the ID and susceptibility workflow

Streamline and standardise the Bruker MALDI Biotyper[®] and BD Phoenix[™] workflow

- Optimise workflow by integrating ID and AST with BD Kiestra[™] IdentifA and SusceptA powered by BD Synapsys[™] microbiology informatics solution.
- Designed to improve patient management by accelerating communication of results.
- Enhance control and consistency utilising the comprehensive and connected suite of BD solutions.



Accelerate your identification testing results by combining the Bruker MALDI Biotyper[®] with BD Kiestra[™] IdentifA

- Provide rapid and accurate pathogen identification
- Reduce time to appropriate therapy for improved patient management¹
- Allow staff to focus on critical tasks

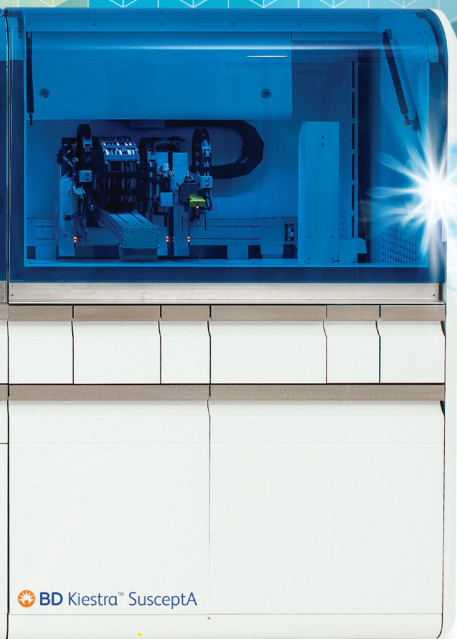
Integrate your current ID and AST protocols and manage your workflow with BD Synapsys[™] informatics solution

Simultaneous ID and AST

At the time of colony marking, start the Bruker MALDI Biotyper[®] identification and BD Phoenix[™] susceptibility workflow

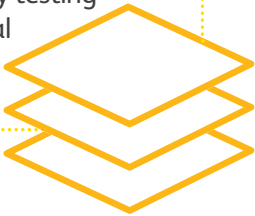
ID-guided AST

Allow the system to process the Bruker MALDI Biotyper[®] identification first, and then proceed to susceptibility processing



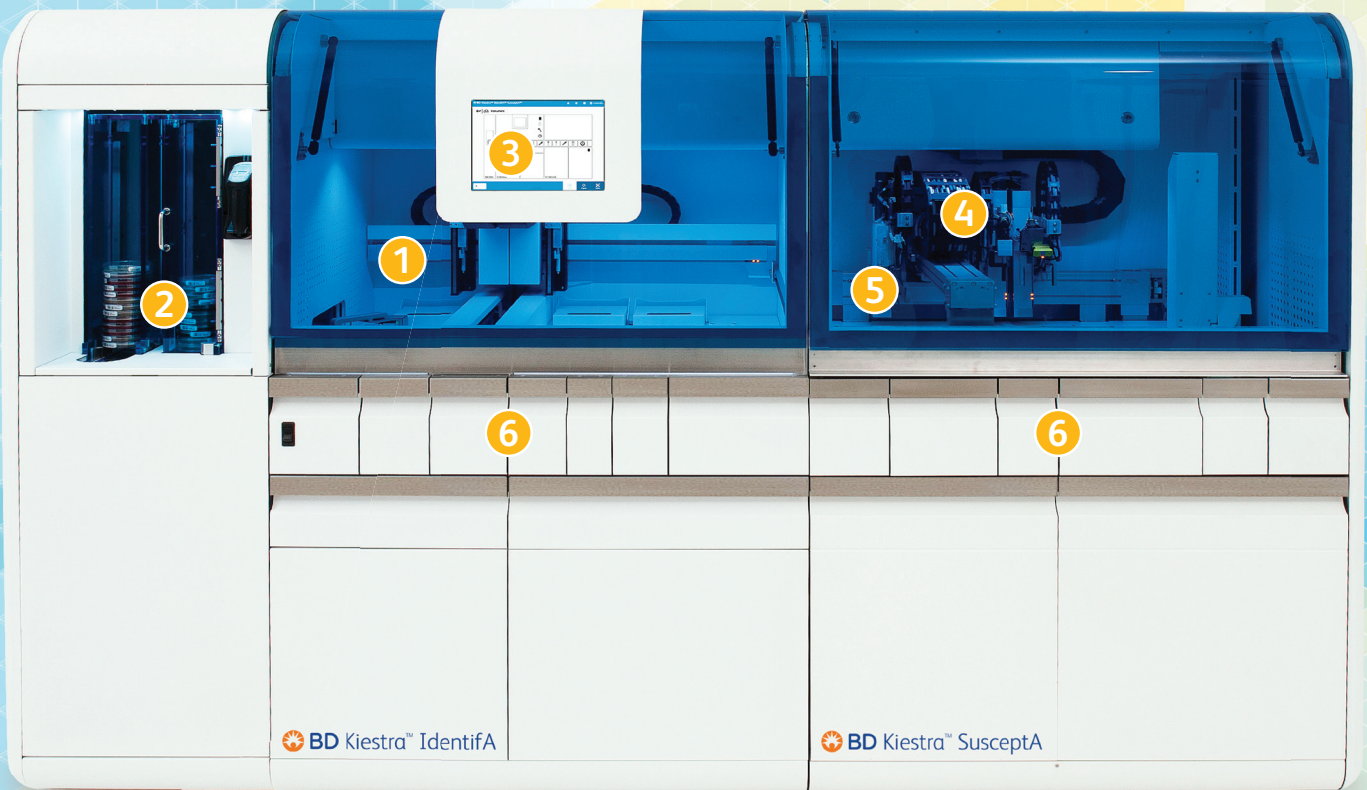
Powered by
BD Synapsys™ microbiology
informatics solution

Leverage an innovative layering technique to begin MALDI-TOF/antimicrobial susceptibility testing with minimal colony material



Elevate your antimicrobial susceptibility testing results by combining the BD Phoenix™ M50 with the BD Kiestra™ SusceptA

- Provide clinicians with timely, accurate susceptibility results to guide appropriate therapy
- Detect emerging resistance by testing more antimicrobials with BD Phoenix™ Emerge panels
- Extend your laboratory's capability and manage emerging resistance with the built-in CPO detect assay

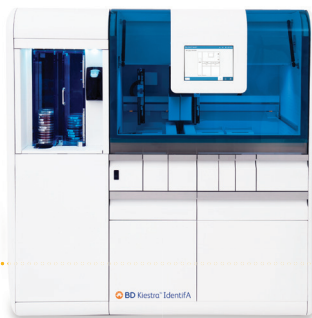


**BD Kiestra™
Standalone
solutions**

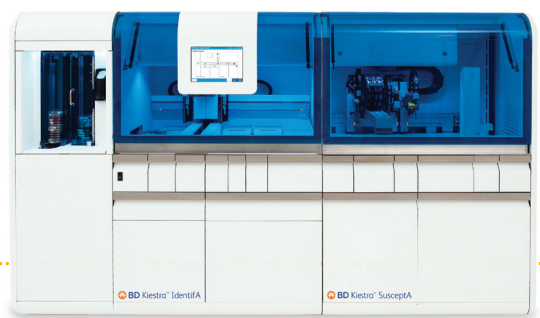
allow automation of specific laboratory tasks through modular, scalable instruments.*



BD Kiestra™ ReadA



BD Kiestra™ at end of IdentifA



BD Kiestra™ at end of IdentifA and SusceptA

*Solutions require integration with a standalone BD Kiestra™ ReadA.

1

BD Kiestra™ IdentifA

- Automated colony picking
- Unique single-suspension testing for MALDI-TOF and susceptibility
- Precise target spotting with layering technology for Bruker MALDI Biotyper® identification testing

2

Flexible connectivity

- Standalone or integrated into a BD Kiestra™ track solution
- Available as BD Kiestra™ IdentifA or with BD Kiestra™ SusceptA when using BD Phoenix™

3

Powered by BD Synapsys™ informatics solution

- Provides reliable traceability of all steps in the process
- Features intuitive user interface to enable customised dashboards and worklists

4

BD Kiestra™ SusceptA

- Fully automated BD Phoenix™ panel preparation
- Utilises the single suspension from IdentifA, ensuring isolate integrity
- Supports gram positive, gram negative and strep panels

5

Purity plate processing

- BD Kiestra™ SusceptA places the BD Phoenix™ susceptibility broth into a BD Kiestra™ InoqLA rack on deck
- Simply load the rack on the BD Kiestra™ InoqLA to prepare the plate
- Incubate the purity plate in BD Kiestra™ ReadA and review growth in BD Synapsys™ informatics solution for end-to-end automation

6

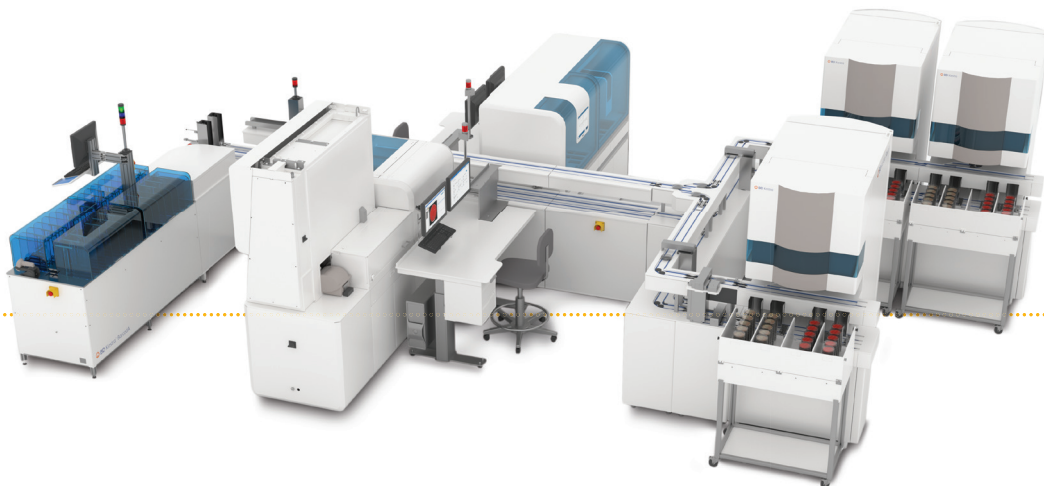
Continuous consumable loading without system interruption

- Continuously load consumables without interrupting the system
- Load up to two Bruker MALDI Biotyper® target plates for continuous target plate spotting

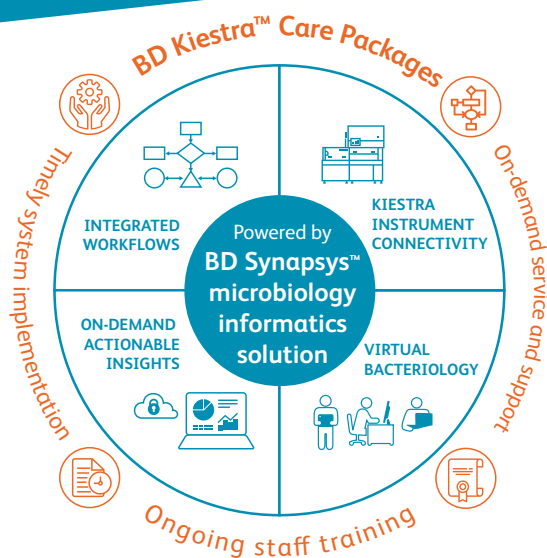
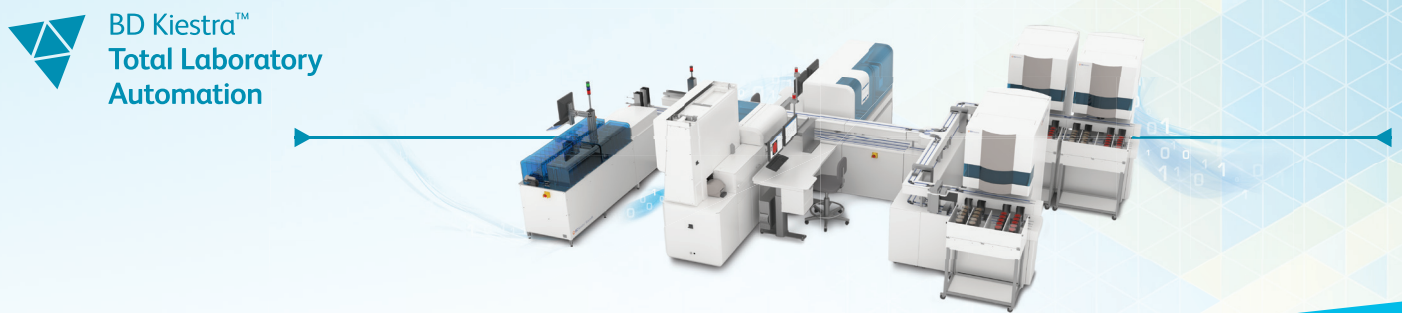
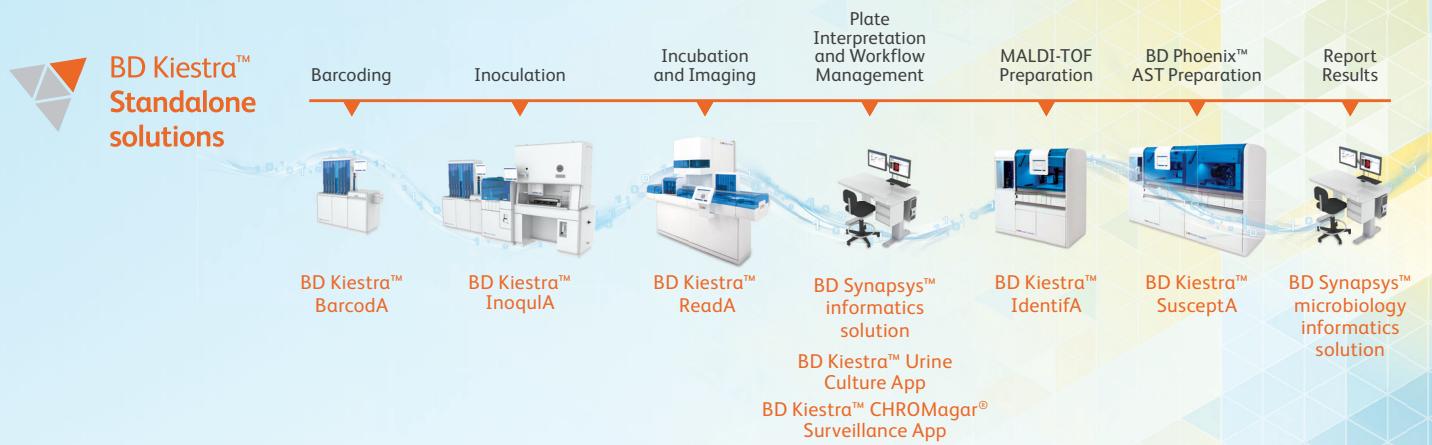


BD Kiestra™ Total Laboratory Automation

provides you with a scalable solution to automate either the entire process or only the tasks you select.



Advance your laboratory through scalable, customised automation



BD Kiestra™ Laboratory Automation Solutions

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Enhance laboratory operations
- 

Maximise financial efficiencies
- 

Advance laboratory outcomes

Reference

1. Theparee T et al. Total laboratory automation and matrix-assisted laser desorption ionisation–time of flight mass spectrometry improve turnaround times in the clinical microbiology laboratory: a retrospective analysis. *J Clin Microbiol.* 2018;56(1):1-8.

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Products are not yet available for sale. Products will be CE-marked in compliance with the European In Vitro Diagnostic Medical Device Directive 98/79/EC upon launch, except for BD Synapsys.
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