

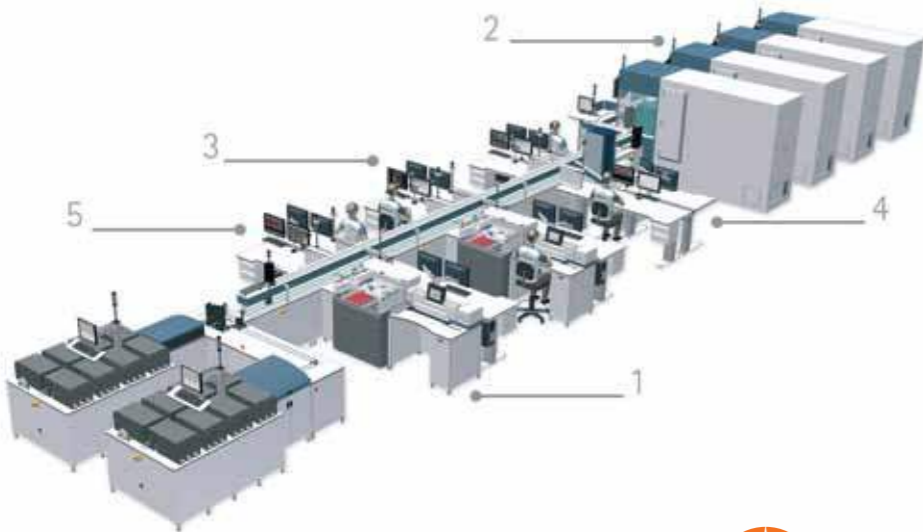
Choose Your Optimal Solution with Confidence

KIESTRA Lab Automation introduced the concept of Total Lab Automation for the clinical microbiology lab in 2006. Since then, many laboratories have chosen to implement this modular, scalable and open architecture solution. With the recent acquisition of Kiestra Lab Automation B.V., BD now offers this proven technology solution, which is designed to increase efficiency, streamline workflow and provide a new way to deliver high quality, consistent results with a fast turn-around time. Building on the experience and expertise developed over many years, BD Kiestra is committed to becoming your thinking partner and delivering the appropriate automated solution for your lab.

Please contact your BD sales representative about product availability.



- Step 1 Inoculation
- Step 2 Incubation
- Step 3 Reading
- Step 4 Identification
- Step 5 Susceptibility



REFERENCE

¹ High amount of separated bacterial colonies with Inoqula.
Jenny Rydback, Ingela Tjernberg and Mats Walder. 2010.

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BD Kiestra™ Inoqula™

The New Standard for Inoculation



Helping all people
live healthy lives

*Bruker MALDI Biotyper® is not available for sale in the U.S.

Product Spotlight



Process All Specimen Types

BD Kiestra™ Inoqula™ automates the processing of both liquid and non-liquid bacteriology specimens, helps streamline workflow, enables standardized processes and ensures consistent and high quality streaking for all specimen types.

Liquid Specimens: The setup of urines, eSwab®, Σ-Transwab® and other liquid specimens is fully automated; simply load containers and walk away.

- BD Kiestra Inoqula vortexes the specimen, decaps the container, inoculates (plates, slides and tubes) and streaks according to the appropriate protocol.
- Containers are recapped and plates are sorted according to the appropriate incubation condition.

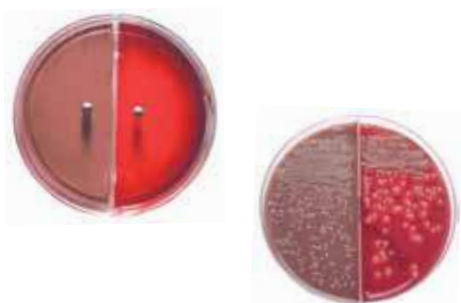


Non-Liquid Specimens: All non-liquid specimens are set up using the Manual Interactive station.

- Once the sample barcode is read, the appropriate media plates are selected, barcoded and delivered to the Manual Interactive station.
- The user inoculates plates, slides and broths as defined by the appropriate specimen protocol.
- Plates are streaked and sorted according to the appropriate incubation condition, slides are ready for staining, and broths are ready for incubation.

Magnetic Rolling Bead Technology

- BD Kiestra Inoqula uses a patent-pending magnetic rolling bead technology to streak all media plates using customizable patterns.
- The purpose of inoculating and streaking bacteriology specimens is to generate single discreet colonies the next day.
- This unique rolling bead technology has been demonstrated to generate up to three to five times more single colonies compared to manual streaking methods.¹



LEAN Inoculation

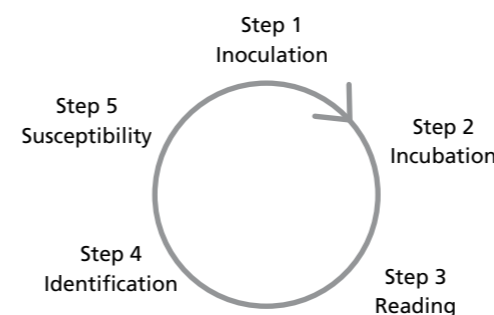
- BD Kiestra Inoqula offers the capability of inoculating plates (including regular plates and bi-plates), slides and tubes.
- BD Kiestra Inoqula is designed to maximize productivity, standardize procedures and allow skilled staff to perform tasks of greater clinical value.



- Liquid specimens are inoculated using a calibrated pipette in Full Automation mode.
- Non-liquid specimens are processed at the Manual Interactive station where plates, slides and broth tubes are inoculated.

Designed for Speed

- BD Kiestra Inoqula can inoculate and streak up to 5 plates simultaneously.
- Instrument throughput depends on the mode of operation, specimen protocol and number of inoculations per specimen.
- Such high throughput increases capacity and accommodates high volume workloads.



It's Step by Step Lab Integration!

Modular, Scalable and Forward Compatible Solution

- Inoculation is the first step in the bacteriology testing process and is often the first opportunity for automation.
- BD Kiestra Inoqula is designed to be forward-compatible with future automation solutions to safeguard your investment.
- BD Kiestra™ Work Cell Automation integrates plate tracks, smart incubators and digital plate imaging systems to ensure your lab is ready for the future.

BD Kiestra™ Inoqula™ Specifications

Performance Indicators	Inoqula
Media Plates	
# Different Media Plates	12
# Plates per Medium	60
Full Plates	Yes
Bi-Plates	Yes
Automatic barcoding of plates	Yes
Placement of plate barcode	On the side of the plate bottom
Specimens	
# Specimen racks for liquid specimens	6
# Specimens per rack	up to 48
Maximum specimen capacity	288
Maximum walk away time	up to 2-3 hours
Liquid specimens	Yes – in Full Automation Mode
Specimen container dimensions	Diameter: 12-50 mm, Height: 60-125 mm
Non-liquid specimens	Yes – in Manual Interactive Mode
Automatic decapping / recapping unit	Yes
Vortexing station	Yes
Inoculation and Streaking	
Inoculation mechanism	Calibrated pipette – Full Automation Mode
Spreading mechanism	Magnetic rolling bead – all plates
Magnetic bead	Disposable or reusable
Length of inoculation path	10-400 cm
# Plates streaked at same time	Up to 5
Streaking patterns	Customizable
Inoculation of slides and broth tubes	Yes – both liquid and non-liquid samples
Quality Management and Assurance	
Barcode identification scan	Yes – each specimen and media plate
Liquid fluid level detection	Yes
Clot & doam detection	Yes, during aspiration and dispensing
Check presence of inoculum on agar	Yes – by camera
Streaking safety	Lid is on plate during streaking
HEPA filter	Yes
Automatic bead removal	Yes
LIS connectivity	Yes
Technical Specifications	
Depth	93.5 cm
Width	417.2 cm
Weight	770 kg
Operating noise	<62 dB
Warranty	1 year
Service Level Agreement	Bronze, Silver or Gold