Transforming microbiology. Improving laboratory outcomes.

BD Kiestra™ InoquLA
A comprehensive automated sample processing solution

Advanced technology for both liquid and non-liquid sample processing. Powered by BD Synapsys™ informatics solution, the BD Kiestra™ InoquLA delivers workflow efficiency, accuracy and standardization enabling fast time to results and cost savings compared to loop based methods.¹ ²
Reduce operational cost and turnaround time through improved colony isolation compared to loop-based streaking

The rolling-bead technology generates more discrete colonies

- Reduces operational cost and enhances efficiency
- Reduces sub-cultures by up to 73% depending on the streak pattern and may shorten the time to identification and antimicrobial susceptibility testing up to one working day
- Improves staff efficiency by reducing the need for rework

The BD Kiestra™ InoquLA utilizes the science of sample streaking to deliver more discrete colonies compared to manual methods

- Automates the processing of both liquid and non-liquid samples
- Supports a wide range of streaking patterns and is compatible with mono plate and bi-plate inoculation in fully automated (FA) mode
- Produces significantly more discrete colonies even with complex sample types such as wound, sputum and stool cultures

The rolling bead technology works according to 3 principles:

- The streaking pattern length optimizes sample spread across the agar surface
- The surface area of the bead enhances the spread of the bacterial load across the agar for a more separated spread
- The combination of the streaking pattern length and bead surface area enables streaking of up to 95% of the agar surface
Gain workflow flexibility and process urgent samples on demand

Drive quality and productivity through automated processing of broth tubes and plates in FA mode.

- Enables complete traceability with BD Synapsys™ informatics solution for plates regardless of whether they are inoculated with BD Kiestra InoquA in either fully automated (FA) or semi-automated mode (SA), or manually streaked
- Allows for user defined sample prioritization enabling labs to respond to urgent samples and on demand needs
- Provides continuous workflow by allowing samples to be loaded and unloaded during processing

The BD Kiestra™ InoquA enables on-demand processing of urgent samples, minimizing interruptions to workflow

Seamlessly switch between automated liquid and non-liquid sample processing*

User prioritized processing for urgent samples

Continuously load and unload samples and plates minimizing workflow interruptions

Inoculate media plates and broth tubes in FA mode to support your test-protocol

High throughput sample processing

Class II-like biosafety cabinet helps to provide user and environmental protection for liquid and non-liquid sample processing

*The BD Kiestra InoquA allows you to pause the fully automated mode and quickly change to semi-automated processing of non-liquid samples and seamlessly switch back to the fully automated mode when you are ready to resume liquid sample processing.
Improve standardization of sample processing compared to loop based methods$^{2,4}$

Proven technology that provides consistent and reproducible processing results$^{2}$

- Increases efficiency and achieves cost savings by reducing manual variability through automated streaking in both fully automated and semi-automated modes$^2$
- Improves specimen traceability through automated plate selection, barcoding and labeling in both fully automated and semi-automated modes
- Minimizes inoculation errors and inconsistencies in fully automated mode with the calibrated pipette$^4$ and positive dispense verification (PDV)

BD Kiestra™ Inocula standardizes inoculation volume and streaking, supporting accurate pathogen identification

The BD Kiestra Inocula is equipped with calibrated conductive pipette technology for accurate aspiration and inoculation.$^4$ This technology measures the volume that is aspirated by the pipette tip, helping to ensure the correct volume is inoculated onto the media plate or broth tube in FA mode.

Standardization enables reproducible results and accurate reporting
Enhance the quality of specimen processing through an automated solution and innovative technologies

Experience peace of mind during FA mode inoculation by minimizing the risk of false negative no growth results, plate handling errors and cross contamination

- Ensures that a specimen is dispensed on a plate during the inoculation process with positive dispense verification (PDV) technology in FA mode
- Improve standardization of plate handling and labeling steps to help minimize human error that may delay turnaround time when using in both FA and SA modes
- Minimizes the risk of cross contamination during sample processing with closed lid streaking

<table>
<thead>
<tr>
<th>Minimize false negative no growth results during inoculation in FA mode</th>
<th>Help minimize the risk of cross contamination during plate handling and streaking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid level sensing technologies detect that the pipette has made contact with the sample material</td>
<td>Sample processing with HEPA filter protection</td>
</tr>
<tr>
<td>Clot and foam sensors detect that the sample is aspirated with the correct volume</td>
<td>Closed lid streaking may minimize aerosols from escaping during plate streaking</td>
</tr>
<tr>
<td>Positive dispense verification technology helps to ensure the sample is inoculated onto plates and broths in FA mode</td>
<td>The Class II-like biosafety cabinet helps minimize contamination during SA mode processing through negative air pressure during inoculation</td>
</tr>
</tbody>
</table>
The BD Kiestra™ InoquLA, a proven solution to deliver fast and accurate streaking of liquid and non-liquid sample types.
BD Kiestra™ InoqulA fully automated (FA) module
- Fully automated inoculation of liquid samples onto plates and broths based on your laboratory test-protocol
- Continuous loading and unloading of samples
- Supports priority sample processing
- Conductive pipette technology

Plate barcoding
- Automatically barcode all plates, both for liquid and non-liquid samples
- Providing reliable plate traceability through BD Synapsys™ informatics solution

BD Kiestra™ InoqulA semi-automated (SA) module
- SA inoculation of both liquid and non-liquid samples onto plates, broths and slides based on your laboratory test-protocol
- Reduce time spent on changing SOP’s or liquefying solid sample types

Continuous loading of samples
- Load and unload samples while the system is processing
- Allows the user to prioritize samples that need immediate attention minimizing disruptions to workflow

Optional Class II-like biosafety cabinet
- Helps provide user and environmental protection for liquid and non-liquid sample processing
- Biosafety cabinet designed together with the Baker company

Automated plate selection
- Continuously load up to 600 media plates simultaneously minimizing interruptions to the sample processing
- Load up to 12 different media types
- Compatible with both mono and bi-plates

Rolling bead technology
- Generate more discrete colonies compared to manual streaking may minimize the need for subcultures
- Closed lid streaking minimizes aerosol contamination
- Standardized sample streaking delivers reliable and reproducible results
Advance your laboratory through scalable, customized automation

References: