BD FACSLyric™ Flow Cytometer integrated with the BD FACSDuet™ Sample Preparation System

Discover a powerful new level of performance to move the pace of your lab forward

BD

THE DIFFERENCE IS A
LAB IN RHYTHM

Efficient[1]

A study demonstrated that samples prepared with 20x BD Multitest™ 6-Color TBNK Reagent + BD Trucount™Tubes on the automated BD FACSDuet™ System integrated with BD FACSLyric™ Flow Cytometer vs manual preparation led to:

- 20% reduction in total process time*
- 99% reduction of error-prone steps
- 75% reduction in hands-on time*
- Reduced staff training time

Standardized

- Preprogrammed preparation methods
- Traceability of specimens, reagents, antibody cocktails and samples

Flexible

- Ability to create preparation methods
- Modular and upgradeable design to adapt to evolving laboratory needs
- Automated on-board cocktail preparation
- Compatibility with a wide range of reagent vial sizes and manufacturers

* Results may vary depending on user factors, including protocol and assay being performed. The results are based on an efficiency study completed by Barts Health NHS Foundation Trust, Royal London Hospital, UK. Automated vs manual preparation when 2 people are dedicated to the task.

The BD FACSDuet™ Sample Preparation System combines automation, simplicity and consistency. Physically integrated with the BD FACSLyric™ Flow Cytometer, this complete walkaway sample-to-answer solution can help drive your laboratory to higher productivity.

The system integrates seamlessly into your laboratory workflow providing standardization with flexibility to meet your needs. Designed as a modular system, with an intuitive and easy-to-use touchscreen software interface, the BD FACSDuet™ System changes the way you have always experienced sample preparation and flow cytometry.

Efficient because....

Reduces the time to results and increases workflow consistency

- Handling of up to 3 carriers and worklists simultaneously to increase specimen throughput

- Reduction in hands-on time creates lab capacity for handling increasing work volume[1]

- Physically integrated with the BD FACSLyric™ Flow Cytometer for automated transfer of ready-to-acquire samples providing a true walkaway solution

Reduces variability and errors

- Standardized protocols and automated specimen and reagent pipetting reduce variability in sample preparation, eliminating critical error prone steps and leading to more accurate results

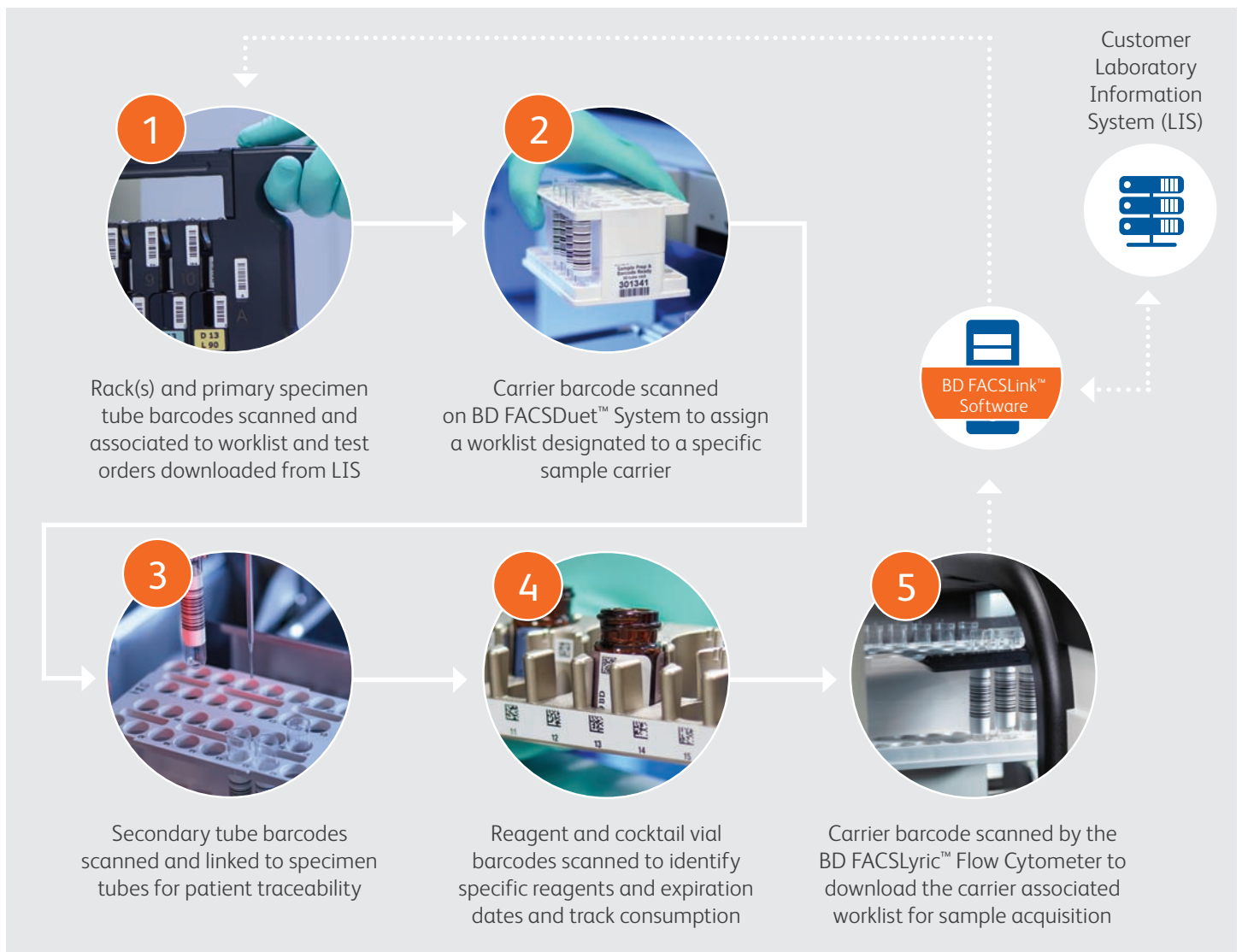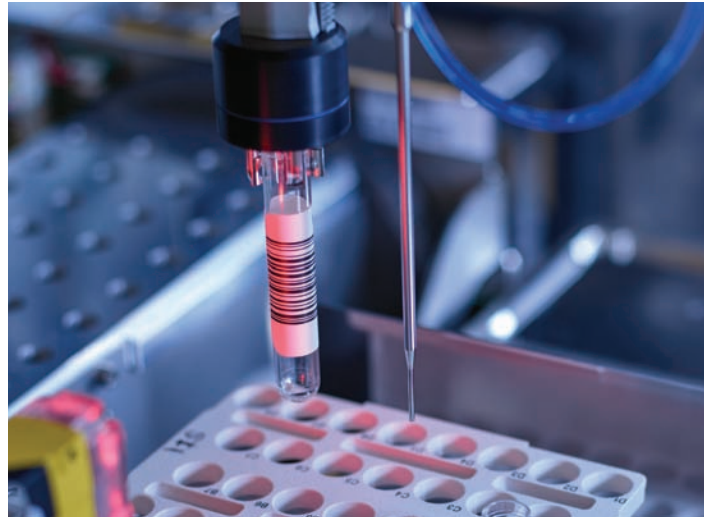## Minimizes the manual inputs required from users

- Bidirectional communication with the laboratory information system (LIS) automates worklist preparation and eliminates the risk of generating errors when manually transcribing data

- Smart barcode reading enables automated worklist(s) tracking

Minimizes user training with intuitive touchscreen interface

Standardized because....

Enables consistent workflows

- Complete traceability of specimens, samples, reagents, cocktails and worklists throughout the entire workflow
- Standardized preparation methods reduce variability and opportunities for errors
- Automated cocktailing functionality eliminates manual steps, ensuring consistent and error-free creation of multicolor antibody cocktails

Customer Laboratory Information System (LIS)

BD FACSLink™ Software

1 Rack(s) and primary specimen tube barcodes scanned and associated to worklist and test orders downloaded from LIS

2 Carrier barcode scanned on BD FACSDuet™ System to assign a worklist designated to a specific sample carrier

3 Secondary tube barcodes scanned and linked to specimen tubes for patient traceability

4 Reagent and cocktail vial barcodes scanned to identify specific reagents and expiration dates and track consumption

5 Carrier barcode scanned by the BD FACSLyric™ Flow Cytometer to download the carrier associated worklist for sample acquisition

Flexible because....

- Allows users to create their own preparation methods

- Accommodates 20 different specimen tube types

- Accommodates various reagent vial sizes for a total of 46 reagents on-board from a wide range of manufacturers

- Allows users to create reagent cocktails with up to 45 unique reagents

- Delivers an upgradable and modular design to adapt to the evolving needs of each laboratory

Closing thoughts *(from actual users)….*

"What's the potential impact of the BD FACSDuet™ [Sample Preparation System]? It removes our manual processes, increases our efficiency and throughput, and gives us control in standardization of processes. It's a controlled environment."

> *Mr. David Bloxham, Principal Biomedical Scientist, Haemotology-Oncology Diagnostic Service (HODS), Cambridge University Hospital NHS Trust, Cambridge, UK*

"At last, a fully integrated end-to-end walkaway solution, which is going to make our lives significantly easier. It reduces errors…leading to increased productivity and efficiency…provides a comprehensive fully auditable account of the whole process…creates capacity to allow us to meet our key performance indicators."

> *Dr. Timothy Farren, Head of Immunophenotyping (Specialist Integrated Haemotological Malignancy Diagnostic Service, SIHMDS), Barts Health NHS Trust, UK*

"I require all the monoclonal antibodies used, the ancillary reagents, tubes, the QC materials to be linked to an exact patient…this is an essential laboratory process but it's also mandatory in order to maintain ISO15189 accreditation."

> *Mr. Chris Scott, Lead Biomedical Scientist, Immunology Department, Barts Health NHS Trust, UK*

BD Life Sciences, San Jose, CA, 95131, USA

bdbiosciences.com

BD