

BIOMÉRIEUX

# VITEK<sup>®</sup> 2

## ID/AST RESULTS YOU CAN TRUST



PIONEERING DIAGNOSTICS



# RESULTS YOU CAN TRUST

## ENHANCE YOUR ANTIMICROBIAL STEWARDSHIP PROGRAM WITH SAME-DAY SUSCEPTIBILITIES

The VITEK® 2 Advanced Expert System™ (AES) software is fully customizable and allows you to manage your time efficiently in the lab. The AES automatically validates each AST result with a confidence level to quickly identify results truly needing a microbiologist's valuable time and attention.

# IMPROVED PATIENT OUTCOMES

## FOCUS ON WHAT MATTERS

Designed for VITEK® 2 automated systems, VITEK ID and antimicrobial susceptibility testing (AST) panels provide reliable and accurate results for clinically important bacteria and yeasts.

bioMérieux provides diagnostic solutions (reagents, instruments, and software) to help identify pathogens and their treatment options to improve patient care.

bioMérieux is a partner you can work with to enhance your antimicrobial stewardship program — providing faster, more accurate and actionable results. Armed with the right identification and susceptibility results, you can improve therapeutic success and patient outcomes.

Microbiologists can easily visualize the confidence of generated results using a tag system (listed below). This can help the microbiologist know where to focus their attention.<sup>4</sup>

- ▶ **Green** Fully consistent results
- ▶ **Yellow** Inconsistent result, review required
- ▶ **Red** Unknown phenotype, check results
- ▶ **Purple** Phenotype not in database

## PROVEN MEDICAL VALUE

Having MIC\* results from a cultured isolate in as little as 5 – 8 hours enables clinicians to quickly optimize antimicrobial therapy and implement infection control policies<sup>4</sup>:

- Reduced length and cost of hospital stay<sup>1-3</sup>
- Decrease antimicrobial usage and help support institutional antimicrobial stewardship programs<sup>4</sup>
- Administer the right drug at the right dose and at the right time.

\*MIC - Minimum inhibitory concentration



Ensuring patients get the right antimicrobial and the right dose, at the right time, is the heart of antimicrobial stewardship.

# CUSTOMIZE VITEK® 2 TO YOUR NEEDS



## SAME DAY, ACCURATE RESULTS

- Phenotypic resistance detection with VITEK 2 AES
- User-friendly workflow
- Quick access to ID/AST results using the navigation tree and filters
- Rapid result searches by patient, bench, date tested, organism, technician, accession number, etc.

## INCREASED TRACEABILITY WITH VITEK® DENSICHEK®

- Intuitive user experience and convenient touchscreen to display McFarland values
- Automatic transfer of McFarland reading to VITEK software

## CUSTOMIZED REPORTING

- Create rules based on intuitive “if...then” logic using BIOART™ (Advanced Reporting Tool)
- Eliminates manual report modification
- Automatically adds customized comments and alerts when reporting critical results
- Helps support your institution's reporting and infection control policies

## QUALITY CONTROL MODULE

- Manages and reports quality control results

## CONNECTIVITY

- Connect easily to your laboratory information system (LIS) for a bi-directional computer interface.
- VILINK® software facilitates remote support and troubleshooting through a secure connection and enables automatic software, firmware and security updates.
- VITEK® FLEXPREP™ SOFTWARE Set up tests from any networked computer in the lab. Move more easily around your lab with VITEK FLEXPREP browser-based software.

## MAESTRIA™: TRANSFORMING DATA INTO ACTIONABLE INFORMATION

- Unique innovative user interface provides consolidated view of sample workflow.
- Enables remote access by multiple users simultaneously and connectivity to an existing LIS.
- Provides instrument monitoring and remote access to validate patient results.
- Consolidates patient results, which are accessible from any location.
- Real-time cumulative statistical reports (e.g., antibiograms).

# FOCUS ON WHAT MATTERS

VITEK® 2 is designed to make your ID/AST workflow as **fast** and **reliable** as possible, all while providing maximum **flexibility** and full **traceability**.

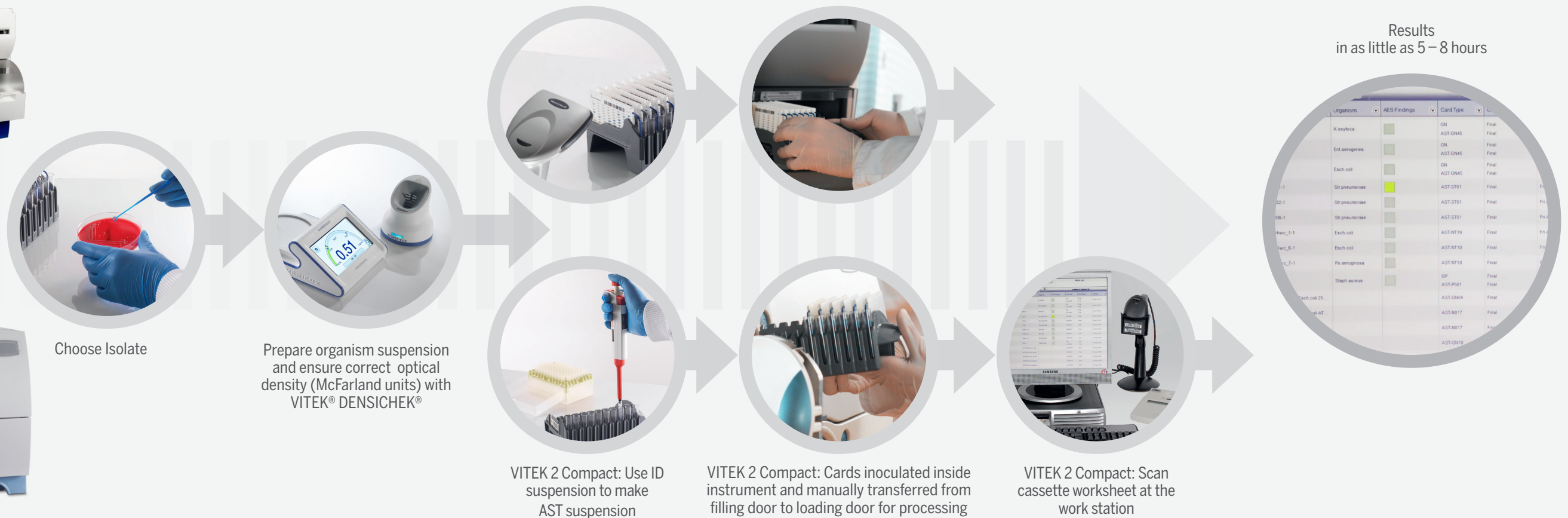
## VITEK 2/XL



VITEK® 2/XL: Scan card and Isolate barcodes to establish traceability

VITEK 2/XL: Load cards on instrument for fully automated processing

## VITEK 2 COMPACT



## INCREASED TRACEABILITY

- The barcoding system improves traceability by linking patient isolates and test cards
- Allows patient demographics to be linked to microbiology results
- Integrated McFarland reading with VITEK FLEXPREP™
- Simultaneous multi-user access to lets microbiologists finalize results from individual workstations with VITEK 2 Systems Web

## RELIABLE, ACCURATE, FLEXIBLE

### HIGH ACCURACY:

- Each self-contained, disposable test card provides accurate species-level ID/AST results with MICs.

### INNOVATIVE AND FLEXIBLE DESIGN:

- Each panel contains microwells with biochemicals for identification and antimicrobials for susceptibility
- Ready and simple to use
- Pre-applied barcodes for maximum traceability

### STRAIGHTFORWARD SAMPLE PREPARATION :

- Reduced card format, promoting waste reduction, weighing only 16 grams and measuring 10 cm x 6 cm x 0.5 cm.

## BROAD AND EXPANDING ID/AST TEST MENU

### IDENTIFICATION PANEL TYPES:

- GN (gram-negative bacilli)**  
>160 organisms
- GP (gram-positive cocci & bacilli)**  
>120 organisms
- ANC (Anaerobes & Corynebacteria)**  
>100 organisms
- NH (Neisseria & Haemophilus)**  
>30 organisms
- YST (Yeast)**  
>50 organisms includes *C. auris*

### ANTIBIOTIC SUSCEPTIBILITY PANEL TYPES:

- Gram-negative bacilli**  
>30 antimicrobials and extended spectrum beta lactamase test
- Staphylococci &/or Enterococci**  
20 antimicrobials, 2 high level aminoglycoside screens and inducible clindamycin resistance test
- Streptococci**  
>12 antimicrobials and inducible clindamycin resistance test
- Streptococcus pneumoniae**  
>15 antimicrobials
- YST (Yeast)**  
5 antimicrobials

# FLEXIBILITY TO MEET YOUR WORKFLOW NEEDS

## VITEK® 2 COMPACT



### CAPACITY OPTIONS

- 15, 30, or 60 cards per instrument

### CONNECTIONS

- 4 Instruments can be connected to the same PC

### DIMENSIONS

- 23.6" x 28.3" x 26.8" (72 x 68 x 60 cm)

### WEIGHT

- 165 lb (75 kg)

### ELECTRICAL REQUIREMENTS

- 100/120 VAC (50-60 Hz)
- or 220/240 VAC (50-60 Hz)

### HEAT DISSIPATED

- 1025 BTU/Hr. (nominal)

### ENVIRONMENTAL REQUIREMENTS

- Operating ambient temperature range of 15°C to 30°C
- Operating humidity range: 20% to 80% relative humidity, non-condensing

### ALTITUDE

- up to 2,000 m

## VITEK® 2



### CAPACITY OPTIONS

- 60 cards per instrument

### CONNECTIONS

- 4 Instruments can be connected to the same PC

### DIMENSIONS

- 26" x 39" x 28" (100 x 71 x 67 cm)

### WEIGHT

- 240 (110 kg)

### ELECTRICAL REQUIREMENTS

- 100/120 VAC (50-60 Hz)
- or 220/240 VAC (50-60 Hz)

### HEAT DISSIPATED

- 512 BTU/Hr. (nominal)

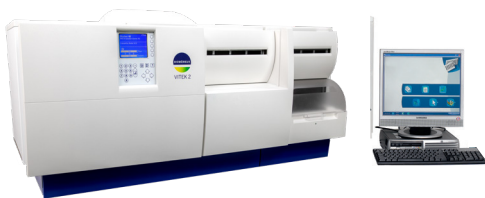
### ENVIRONMENTAL REQUIREMENTS

- Operating ambient temperature range of 20°C to 30°C
- Operating humidity range: 20% to 80% relative humidity, non-condensing

### ALTITUDE

- up to 2,000 m

## VITEK® 2 XL



### CAPACITY OPTIONS

- 120 cards per instrument

### CONNECTIONS

- 4 Instruments can be connected to the same PC

### DIMENSIONS

- 26" x 55" x 28" (140 x 71 x 67 cm)

### WEIGHT

- 320 lb (145 kg)

### ELECTRICAL REQUIREMENTS

- 100/120 VAC (50-60 Hz)
- or 220/240 VAC (50-60 Hz)

### HEAT DISSIPATED

- 682 BTU/Hr. (nominal)

### ENVIRONMENTAL REQUIREMENTS

- Operating ambient temperature range of 20°C to 30°C
- Operating humidity range: 20% to 80% relative humidity, non-condensing

### ALTITUDE

- up to 2,000 m

#### References:

1. Barenfanger J, Drake C, Kacich G. Clinical and Financial Benefits of Rapid Bacterial Identification and Antimicrobial Susceptibility Testing. *J Clin Microbiol.* 1999;37(5):1415-1418.
2. Galar A, Leiva J, Espinosa M, Guillén-Grima F, Hernández S, Yuste JR. Clinical and economic evaluation of the impact of rapid microbiological diagnostic testing. *J Infect.* 2012;65(4):302-309.
3. Galar A, Yuste JR, Espinosa M, Guillén-Grima F, Hernández-Crespo S, and Leiva J. Clinical and economic impact of rapid reporting of bacterial identification and antimicrobial susceptibility results of the most frequently processed specimen types. *Eur J Clin Microbiol Infect Dis.* 2012;31(9):2445-2452
4. LaBombardi, VJ. Maximizing the Use of the Advanced Expert System™ to Improve Patient Care. White Paper. 2011.