IMPROVED PATIENT OUTCOMES

You are faced with an upsurge in bacterial resistance making its detection more complex. Studies show that providing rapid identification and antibiotic susceptibility (ID/AST) results leads to improved patient and financial outcomes.\(^2\)\(^3\)\(^10\)

Faster and more accurate results contribute to improved patient management, reducing the number of diagnostic tests, the length of hospitalisation and all associated costs.\(^2\)\(^3\)\(^10\)

Automated Validation of Every Result

**VITEK**\(^\circledast\)\(^2\) technology represents a smarter way to automate ID/AST testing. It provides rapid, automatic, standardised validation of every test result with next generation expert software, the ADVANCED EXPERT SYSTEM\(^\text{TM}\)\(^2\)\(^3\)\(^10\).

**VITEK**\(^\circledast\)\(^2\) is a unique system that uses a phenotypic expert system instead of commonly used rules-based expert systems which are incapable of recognizing unusual results (i.e. mixed cultures) and new resistance phenotypes for which no rules exist. As a result, microbiologists need to review every single result for rules-based systems, even the vast majority that do not trigger any rules.

RESULTS YOU CAN TRUST

The **VITEK**\(^\circledast\)\(^2\) ADVANCED EXPERT SYSTEM\(^\text{TM}\) software is like having an expert advisor standing by your side\(^2\)\(^3\)\(^10\). It applies a colored indicator to each isolate that shows the level of confidence in the susceptibility results:

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

Microbiologists can quickly and confidently report the majority of results to clinicians, and focus their attention on only those that require their expertise\(^2\)\(^3\)\(^9\)\(^10\).

PROVEN MEDICAL VALUE

MIC\(^*\) results from a cultured isolate in as little as 5 to 8 hours\(^2\)\(^3\)\(^10\), allows clinicians to quickly optimise antimicrobial therapy and implement infection control policies:\(^1\)\(^2\)\(^9\)\(^10\):

- Reduced length and cost of hospitalisation\(^2\)\(^3\)\(^10\)
- Decrease antimicrobial usage and help implement institutional stewardship policies\(^9\)\(^10\)
- Right drug at the right time

MIC: Minimum inhibitory concentrations

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With its intuitive customisable reporting and seamless lab connectivity, **VITEK® 2** easily adapts to your specific needs.

**RESULTS AT A GLANCE**
- Immediate automatic validation and transfer of high confidence results to the LIS (auto-posting) with the ADVANCED EXPERT SYSTEM™ software for faster targeted therapy
- Easy-to-use and familiar Windows® layout
- Quick access to ID and AST results using the navigation tree and filters
- Rapid result searches by patient, bench, date tested, organism, technician, accession number, etc.

**CUSTOMISED REPORTING**
According to your requirements using BIOART™ (Advanced Reporting Tool)
- Create rules based on intuitive “if...then” logic
- Eliminates manual report modification
- Automatically adds customised comments and alerts when reporting critical results
- Helps implement your institution’s reporting and infection control policies

**QUALITY CONTROL MODULE**
- Manages and reports quality control results

**CONNECTIVITY**
- Link to other computers and software
  - Connect easily to your Laboratory Information System (LIS) with BCI Link (Bi-directional Computer Interface)
  - VILINK® software allows remote support and troubleshooting through a secure connection and enables automatic software, firmware and security updates.

**MANAGE DATA AND SAMPLE WORKFLOW**
- MYLA™ software simplifies lab operations
  - Provides real-time instrument and sample information at your fingertips
  - Offers an actionable picture of your workflow through intuitive dashboards
  - Results accessible from any device, any location
  - Real-time cumulative statistical functions (e.g. antibiograms)
  - Enables remote access by multiple users and real-time connectivity to an existing LIS

*Optional software package

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*Optional software package
Focus on what matters

VITEK® 2

is designed to make your ID/AST workflow as rapid and reliable as possible, while still providing maximum flexibility and full traceability. Lab personnel can focus on using their expertise where it’s most needed.

SAVE TIME AND STREAMLINE YOUR WORKFLOW

VITEK® 2 has the shortest hands-on-time in the industry.

- Ergonomic automation enhances workflow.
- Minimal sample preparation with up to 50% fewer steps.
- Significantly less waste than other systems; up to 64% cost savings for contaminated waste disposal.

FLEXIBILITY

Simultaneous access from multiple workbenches

- The barcoding system saves time and improves traceability by linking patient isolates and test cards at the bench.
- VITEK® 2 improves lab workflow by allowing patient demographics to be linked to tests at multiple benches simultaneously.
- Simultaneous multi-user access to VITEK® 2 systems lets microbiologists finalise results from individual workstations.

RELIABLE, SAFE, RAPID

VITEK® 2 ID/AST cards are innovative

- Proven accuracy, with faster results, contributing to improved patient outcomes.
- Minimises human error that is an inevitable part of manually reading and reviewing results.
- Closed system: no aerosols, splattering or spills.
- Full traceability with pre-applied barcodes.
- Lightweight: reduced waste and biohazard disposal costs while minimising storage space.
- EUCAST® and CLSI® compliant AST formulations available producing MICs based on reference CLSI and ISO MIC methods.

BROAD AND EXPANDING ID/AST TEST MENU

Susceptibility card types**:

- Gram negative Bacilli - 76 antimicrobials and ESBL*** test
- Staphylococci &/or Enterococci - 55 antimicrobials, 4 high level aminoglycoside screens and ICR†† test
- Streptococci - 14 antimicrobials and ICR test and gentamicin synergy
- Streptococcus Pneumoniae - 23 antimicrobials
- YST (Yeast) - 6 antifungals

* CLSI - Clinical Laboratory Standards Institute
† European Committee on Antimicrobial Susceptibility Testing
** Clearance by local regulatory body may apply
*** Extended-spectrum-beta-lactamase
†† Inducible clindamycin resistance

Choose Isolate

Prepare organism suspension and ensure correct McFarland Standard with DENISOCHER® PLUS

Scan card and isolate barcodes to establish traceability

VITEK® 2 COMPACT: Use ID suspension to make AST suspension

VITEK® 2 COMPACT: Cards inoculated inside instrument and manually transferred from filling door to loading door for processing

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

Results in as little as 5 to 8 hours

VITEK® 2 COMPACT

VITEK® 2

Focus on what matters
# Flexibility to meet your workflow needs

## VITEK® 2 COMPACT

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAPACITY OPTIONS</strong></td>
<td>• 15, 30, or 60 cards per instrument</td>
</tr>
<tr>
<td><strong>DIMENSIONS</strong></td>
<td>• 72 x 68 x 60 cm</td>
</tr>
<tr>
<td><strong>ELECTRICAL REQUIREMENTS</strong></td>
<td>• 100/120 VAC (50-60 Hz) or 220/240 VAC (50-60 Hz)</td>
</tr>
</tbody>
</table>
| **ENVIRONMENTAL REQUIREMENTS** | • Operating ambient temperature range of 15˚C to 30˚C  
|                              | • Operating humidity range: 20% to 80% relative humidity, non-condensing |
| **CONNECTIONS**              | • 4 instruments can be connected to the same PC    |
| **WEIGHT**                   | • 75 kg                                            |
| **HEAT DISSIPATED**          | • 1025 BTU/Hr. (nominal)                          |
| **ALTITUDE**                 | • up to 2,000 m                                   |

## VITEK® 2

<table>
<thead>
<tr>
<th>Feature</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>CAPACITY</strong></td>
<td>• 60 cards per instrument</td>
</tr>
<tr>
<td><strong>DIMENSIONS</strong></td>
<td>• 100 x 71 x 67 cm</td>
</tr>
<tr>
<td><strong>ELECTRICAL REQUIREMENTS</strong></td>
<td>• 100/120 VAC (50-60 Hz) or 220/240 VAC (50-60 Hz)</td>
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</tbody>
</table>
| **ENVIRONMENTAL REQUIREMENTS** | • Operating ambient temperature range of 20˚C to 30˚C  
|                              | • Operating humidity range: 20% to 80% relative humidity, non-condensing |
| **CONNECTIONS**              | • 4 instruments can be connected to the same PC    |
| **WEIGHT**                   | • 110 kg                                           |
| **HEAT DISSIPATED**          | • 512 BTU/Hr. (nominal)                            |
| **ALTITUDE**                 | • up to 2,000 m                                   |

## VITEK® 2 XL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAPACITY</strong></td>
<td>• 120 cards per instrument</td>
</tr>
<tr>
<td><strong>DIMENSIONS</strong></td>
<td>• 140 x 71 x 67 cm</td>
</tr>
<tr>
<td><strong>ELECTRICAL REQUIREMENTS</strong></td>
<td>• 100/120 VAC (50-60 Hz) or 220/240 VAC (50-60 Hz)</td>
</tr>
</tbody>
</table>
| **ENVIRONMENTAL REQUIREMENTS** | • Operating ambient temperature range of 20˚C to 30˚C  
|                              | • Operating humidity range: 20% to 80% relative humidity, non-condensing |
| **CONNECTIONS**              | • 4 instruments can be connected to the same PC    |
| **WEIGHT**                   | • 145 kg                                           |
| **HEAT DISSIPATED**          | • 682 BTU/Hr. (nominal)                            |
| **ALTITUDE**                 | • up to 2,000 m                                   |