

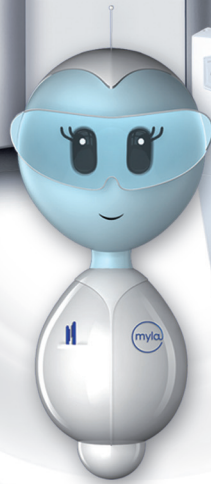
IDENTIFICATION & SUSCEPTIBILITY TESTING

**ECCMID
CONGRESS
2011**



VITEK MS™

**Fast
Flexible
Fluid**



VITEK 2™



Innovative clinical application

A comprehensive database of clinically relevant species allows identification of organisms in a matter of minutes. Moreover, innovative workflow integration with VITEK® 2 through Myla™ effectively and conveniently combines ID/AST. Just a few steps to obtain a result:

1. Deposit bacterial or fungal cells directly onto Target
2. Add the ready-to-use matrix solution
3. Analyze the sample with VITEK® MS



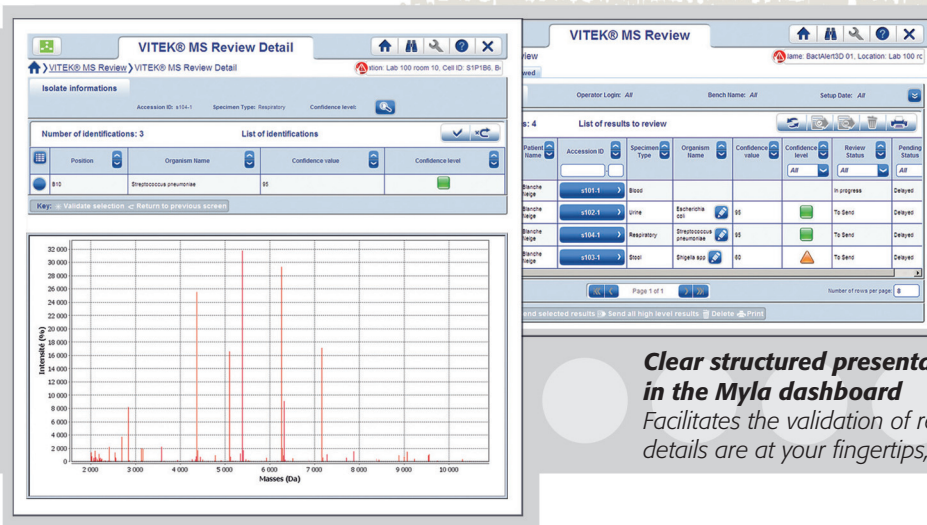
VITEK® MS Acquisition Station
Operational visibility
Practicality and ease of use



VITEK® MS Sample Prep Station
Simple scanning steps
Connecting VITEK® MS ID and VITEK® 2 AST



Flexible integration with VITEK® 2 AST you need, when you need them



Slide

**Clear structured presentation of the results
in the Myla dashboard**

*Facilitates the validation of results as all necessary
details are at your fingertips, even if working remotely.*



The VITEK® MS advantages: Rapid Identification, Flexibility and Traceability

Identification results within minutes

Microbial identification is achieved by obtaining spectra using MALDI-TOF technology (Matrix Assisted Laser Desorption Ionization Time-of-Flight) and analyzing the spectra with the VITEK® MS database. The peaks from these spectra are compared to the characteristic pattern for a species, genus, or family of microorganism, thus resulting in organism identification.

The VITEK® MS database is comprised of a large number of clinically relevant micro-organisms.

Furthermore, our proprietary algorithm vastly increases accurate identification of micro-organisms. In addition, other benefits associated with the VITEK® MS include:

- Protein extraction, if needed can be performed directly on the target slide
- Disposable slides do not require cleaning or cleaning supplies
- High resolution of the mass signals leads to better results
- High sensitivity in the >10k Dalton range

Flexibility and Efficiency

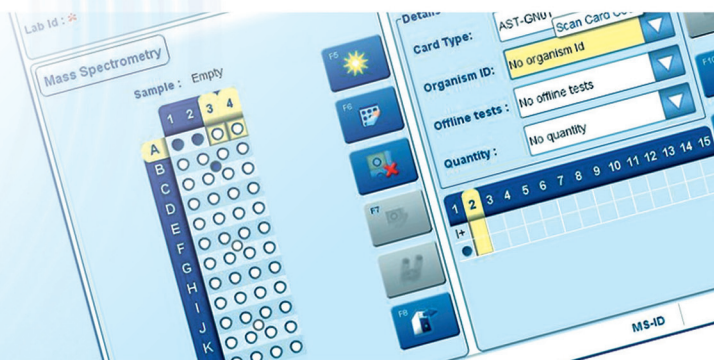
With Myla software, easily integrate VITEK® MS and VITEK® 2.

- Up to four target slides with 48 positions each can be analyzed in parallel in the system allowing testing of **192 isolates in one run**
- Connection to VITEK® 2 automatically links the VITEK® MS identification result with the VITEK® 2 AST result
- User friendly software greatly facilitates workflow from sample preparation, loading to specimen analysis
- Have ready access to information increasing productivity

Security and Traceability

VITEK® MS includes the VITEK® MS Prep Station to securely link specimen information with each spot on the target slide and to the VITEK® 2 cassette position:

- Disposable target slides with unique barcodes minimize manual data entry
- Dedicated positions on the target slides for calibration
- Generation of electronic worksheets during set up



ID/AST solution by Microbiologists for Microbiologists



Etest®



LyfoCults™ PLUS



VITEK® 2 Compact



VITEK® 2



Myla™ – connecting your laboratory
through innovative Middleware

VITEK® MS



Leader in Microbiology, Leader in Mass Spectrometry

The principle behind the VITEK® MS for identification of microorganisms is more than 20 years old. Working directly with AnagnosTec and Shimadzu, two pioneers in the field of bacterial identification using mass spectrometry, bioMérieux offers VITEK® MS with the same high standards you expect

- **1988:** first commercially available MALDI-TOF system from Shimadzu
- **1998:** AnagnosTec develops the SARAMIS™ Database
- **2000:** European patent for the SARAMIS™ Database
- **2002:** Koichi Tanaka (Shimadzu) wins the Nobel Prize for Soft Laser Desorption*

* Desorption of large molecules that results in ionization without the formation of fragment ions.

SPECIFICATIONS

Dimensions

- Size (w h d) – 0.7 m x 1.92 m x 0.85 m minimum distance to wall at back is 100 mm
- Weight – 330 kg excluding data system

Installation Requirements

- Electrical – 200 VAC, 50/60 Hz, 1000 VA single phase OR 230 VAC, 50/60 Hz, 1000 VA single phase
- A "clean", stable and continuous mains supply is required for reliable operation
- Temperature – ambient 18° to 26° Celsius
- Relative humidity – less than 70% non condensing
- Vibration free, firm, level floor, at least 330 kg supported at four points

Laser

- 337 nm nitrogen laser, fixed focus
- 3 ns pulse rate – 50Hz (50 laser shots per second)
- Near normal (on-axis) incidence of the laser beam to the sample
- Laser power and laser aim under software control

Analyzer

- Linear flight tube of 1.2 m drift length
- Vacuum maintained by two turbomolecular pumps (nominal 250 l/s) with rotary backing
- Beam blanking to deflect unwanted high intensity signals e.g. matrix ions

Mass range

- 1 to 500 kDa

bioMérieux S.A.
69280 Marcy l'Etoile
France
Tel. : 33 (0)4 78 87 20 00
Fax : 33 (0)4 78 87 20 90

www.biomerieux.com
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