The best and most complete ID/AST solution

By Microbiologists for Microbiologists

Etest®

LyfoCults™ PLUS

VITEK® 2

VITEK® MS

Myla™ – connecting your laboratory through innovative Middleware

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

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BIOMÉRIEUX

IDENTIFICATION & SUSCEPTIBILITY TESTING

VITEK MS™

Fast
Flexible
Innovative

VITEK 2™

BIOMÉRIEUX

VITEK MS™ The best and most complete ID/AST solution

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:

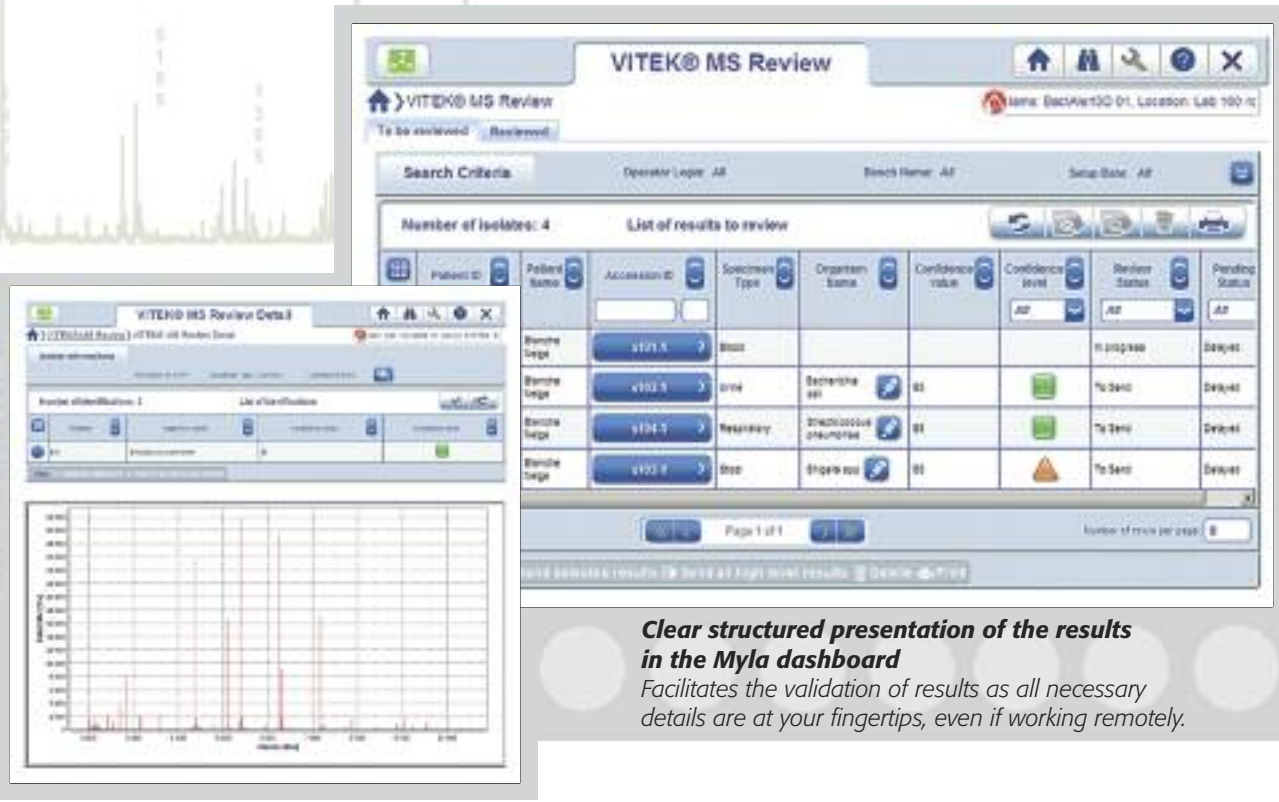
1. **Deposit bacterial or yeast cells directly onto Target Slide**
2. **Add the ready-to-use matrix solution**
3. **Analyze the sample with VITEK® MS**

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

Myla™ server with MS-ID database

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

VITEK® 2



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.

Fast Identification, Flexibility and Innovative solution

A clinically RELEVANT database

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**.

- **Comprised of clinically relevant species with more than 25 000 spectra. Robust validation using an Advanced Spectra Classifier for reliable identification**
- A large number of strains tested for each species in the database

Traceability and Flexibility

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

- **Traceability:** Connect multiple VITEK® MS PREP stations facilitating traceability of all ID/ASTs
- **Flexibility:** Disposable target slides with unique barcodes eliminate manual data entry and workflow is enhanced on independent workstations
- Generation of electronic worksheets during set up

The VITEK® MS Advantage

- **Full Integration** with ID from VITEK® MS to AST from VITEK® 2 by a **single** provider. A connection **made** by us and **managed** by us!
- **Optimized sample loading:** Simply deposit the organisms onto the target slide, add matrix and run the mass spec.
- **On target extraction:** Protein extraction, if needed can be performed directly on the target slide.
- **Ready-to-use consumables:** The VITEK® MS comes with ready-to-use, light stable matrix solution saving time on reagent preparation.
- **Efficiency:** 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.
- **Confidence:** Disposable slides eliminate the need for cleaning and potential sample contamination.
- **High resolution:** Highly reproducible identification from microorganism protein mass spectra in the >10k Dalton range. Ability to scan up to 500k Dalton enabling the possibility for future applications.
- **Convenience:** With Myla™ you can easily access results and system information through a networked PC.

All information available at your fingertips, when you need it and where you need it!