



Autobio *MS1000* / MALDI-TOF

Automated mass spectrometry microbial identification system
-Professional spectrum identification platform with comprehensive
databases





Fast, safe and flexible !

Autof **MS1000**

Fast and accurate microbial identification platform for clinical, drug testing and other research applications.

Hardware

- Innovative optical design enhances the resolution.
- FPGA chip, improves accuracy and stability of slide positioning.
- High power turbo molecular pump realizes the simultaneous tests once slide loaded.
- Ion source vacuum degree up to 10^{-7} mbar
- Unique design of signal detection system guarantees high repeatability.
- 0.01 μ m high-precision pump filter reduces biological safety risk control.

Software

Acquisition system

- Efficient batch processing system saves labor cost and time.
- Rapid identification module obtains a sample result in 0.1 seconds.
- LIS connection available.
- Real-time acquired spectrums improves the convenience.

Analysis System

- Customized report templates and database self-built functions supported.
- Multi-functional microbial mass spectrometry analysis supported.
- Highly integrated functional design.
- Remote multi-user operations supported.

Database

- A large number of quality control strains from various fields.
- Real-time database updating system to meet the needs of multiple industries.



Specification

Laser

- 337 nm nitrogen laser, fixed focus
- Maximum pulse rate - 60 Hz (60 laser shots per second)
- Laser power and laser aim under software control

Analyzer

- Linear flight tube of 1.05 m drift length
- Vacuum maintained by a mechanical pump and a turbo molecular pump

Mass range

- 1-500KDa

Dimensions

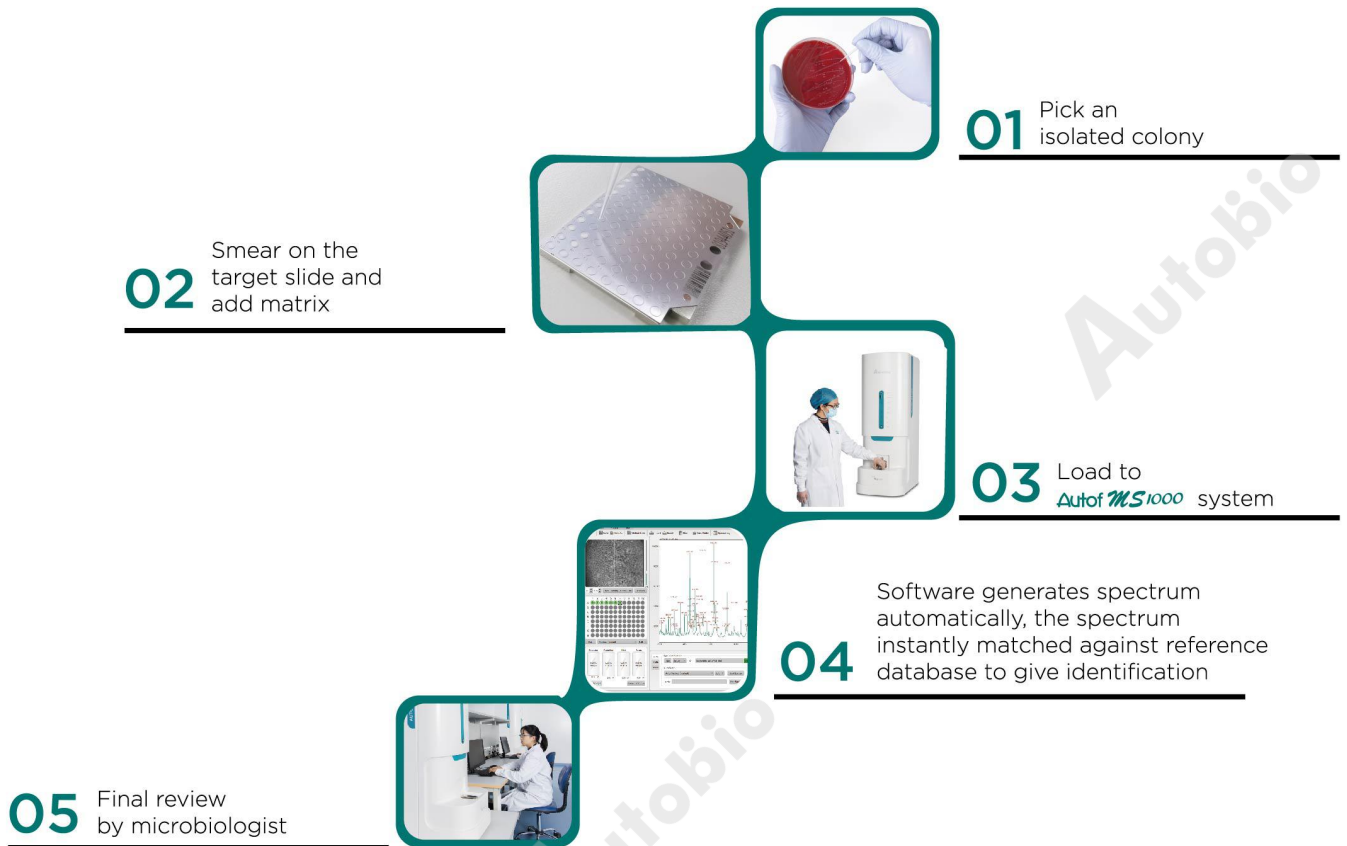
- Size(W*L*H,mm): 450×705 ×1280
- Weight: 101kg excluding data system

Installation requirements

- Input: AC 100-240V, 50-60Hz, 290VA
- Stable and continuous power supply
- Temperature: 10-30 °C
- Humidity: less than 70% non-condensing
- Vibration free

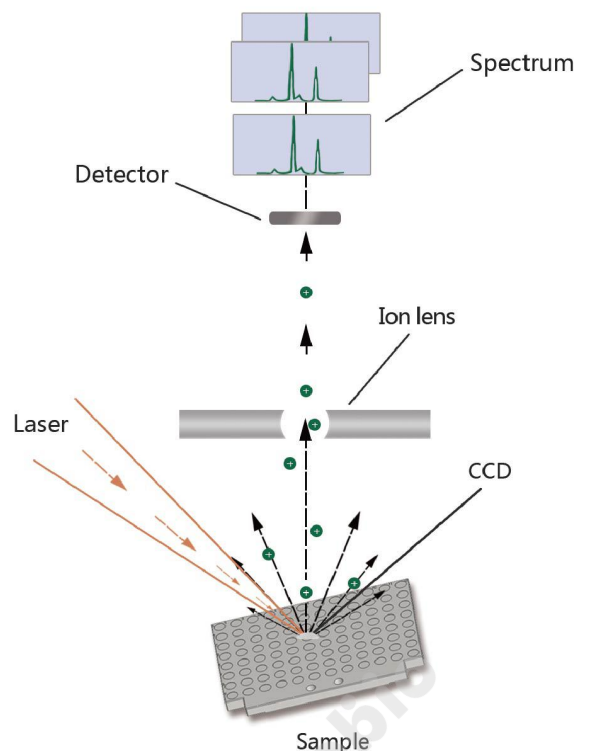


Sample workflow



HOW MALDI-TOF works

- Put the sample mixed with matrix on the target slide to high-vacuum cassette position.
- Ionize the sample by pulsed laser.
- The ions obtain the same kinetic energy and go through the flight time detector.
- The mass charge ratio of the ions is proportional to the square of the flying time.
- The identification results are available by comparing with the reference spectrums in the database.





Accessories and ready-to-use reagents

Cat No.	Description	Sepecification
MSA01	Sample Pretreatment Reagent	100T
MSA02	Calibrator	80T
MSA03	CHCA Matrix	0.5ml*4 Bottles
11.08.03.0001	Target Slide	10 pcs
11.08.03.0002	Target Slide Holder	2 pcs

Autobio provides a complete solution of Microbiology

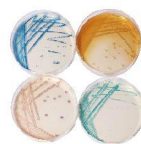
Culture



Microbiological Culturing Plate, Automated Blood Culture System

1

Identification



Autof MS 1000, Drying Chemoenzymatic Culturing Medium

2

AST



Mycoplasma IES, Fungi ID/AST... Auto MIC Strip

3

INNOVATION · MANUFACTURE · INTEGRATION · SERVICE

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