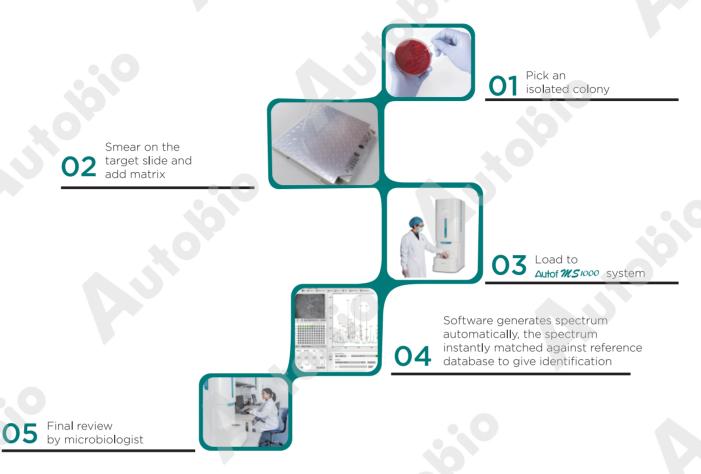


Fast, safe and flexible!

Autof *MS1000* 

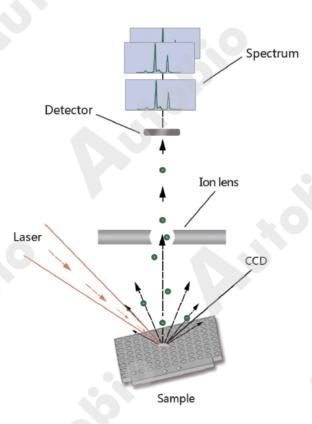
Fast and accurate microbial identification platform for clinical, drug testing and other research applications.

## 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.



## Hardware

- Innovative optical design enhances the resolution.
- FPGA chip, improves accuracy and stability of slide positioning.
- High power turbo molecular pump realizes the simulatanous tests once slide loaded.
- Ion source vacuum degree up to 10-7mbar
- Unique design of signal detection system guarantees high repeatability.
- 0.01 um 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, 400 million laser shorts
- 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
- Vaccum mantained 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**

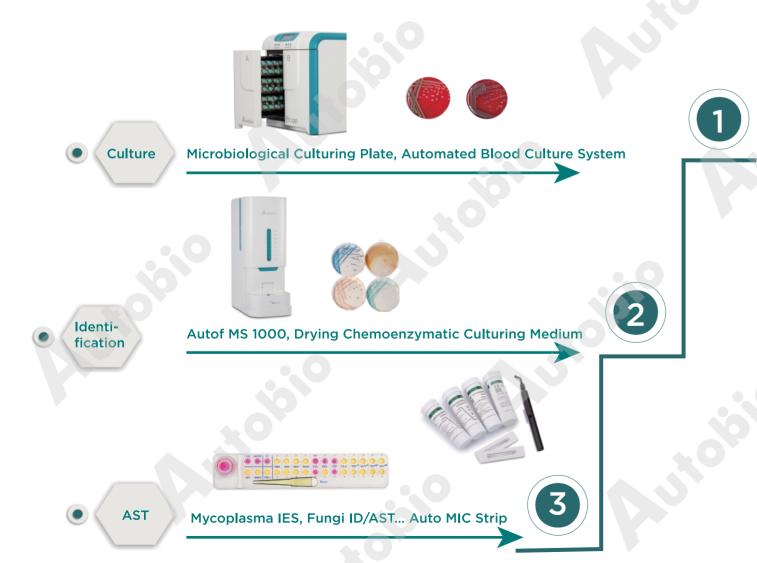
- Input: AC 100-240V, 50-60Hz, 290VA
- Stable and continuous power supply
- Temperature: 10-30°C
- Humidity: less than 70% non-condensing
- Vibration free



# Accessories and ready-to-use reagents

Cat No.	Description	Sepecification
MSA01	Sample Pretreatment Reagent100T	
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 ncs

# Autobio provides a complete solution of Microbiology



#### INNOVATION - MANUFACTURE - INTEGRATION - SERVICE

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Offer more than 400 in vitro diagnostic products including CLIA (microplate based and magnetic particle based), ELISA, Microbiology and Biochemistry. As an ISO9001, EN ISO13485 certified manufacturer, Autobio supplies high quality products through its well established sales network and is renowned as a reliable partner. For details please visit: www.autobio.com.cn

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