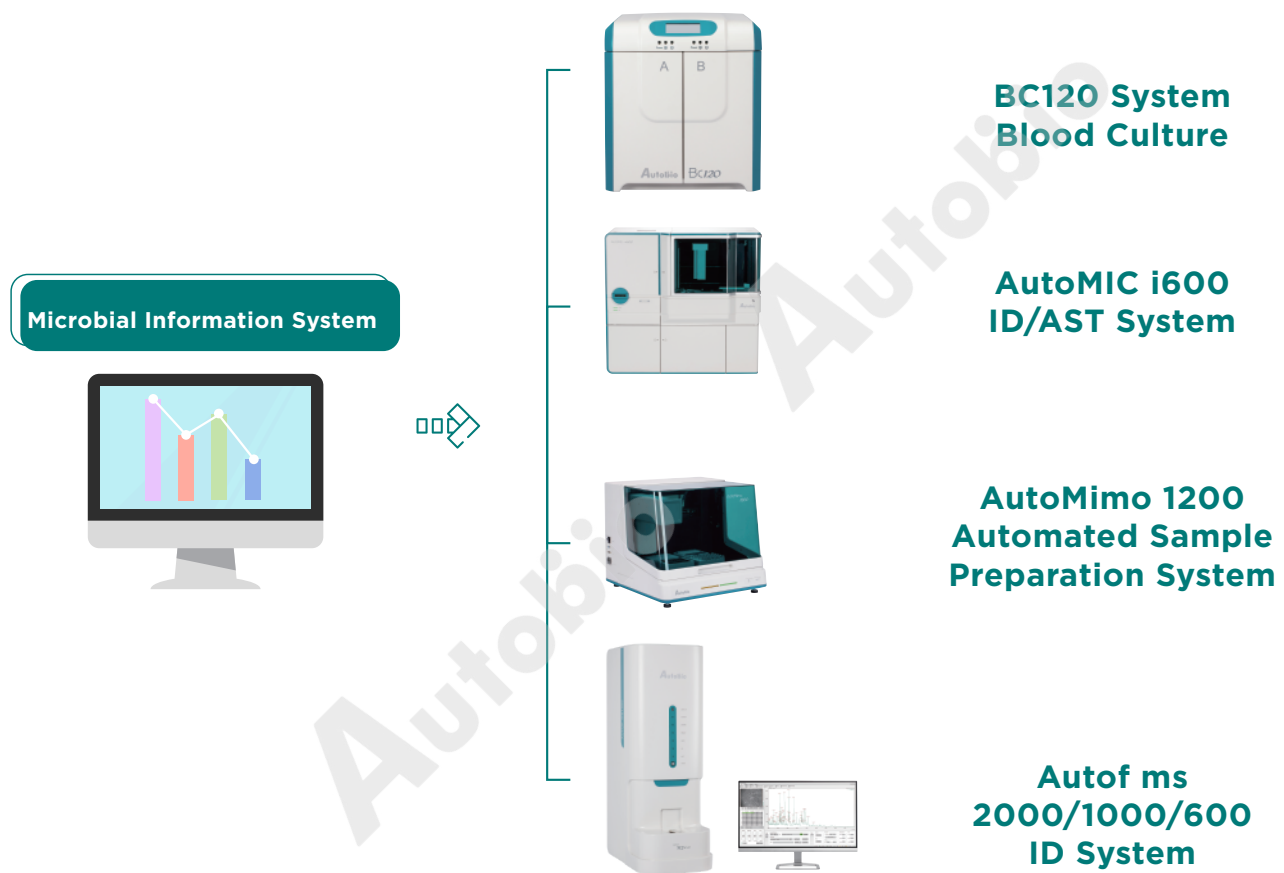


Accessories and Reagents

Cat No.	Description	Specification
MSA01	Sample pretreatment reagent	100T
MSA02	Calibrator for AUTOF MS	80T
MSA03	CHCA matrix for use with AUTOF MS	0.5ml*4Bottles
MSA04	Positive Blood Cultures Pretreatment Reagent	60T
MSA05	Filamentous Fungi Pretreatment Reagent	120T
31.03.04.0009	Target Slide	10 pcs
31.03.04.0010	Target Slide Holder	2 pcs

Autobio Microbiology Automation solution



INNOVATION · MANUFACTURE · INTEGRATION · SERVICE

Autof
MS 2000

Automated Mass Spectrometry Microbial Identification System



Autobio Diagnostics Co., Ltd.

offers more than 400 in vitro diagnostic products including CLIA(microplate based CLIA and magnetic particle based CLIA),ELISA,POCT(Point of Care Test),Microbiology and Biochemistry. As an ISO9001 and EN ISO13485 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

Autobio Diagnostics Co., Ltd. | NO.87 Jingbei Yi Rd | National Eco&Tech Zone | Zheng zhou City | China 450016
T:+86-371-6798-5313 | F:+86-371-6798-5804 | E:info@autobio-diagnostics.com | W:www.autobio.com.cn

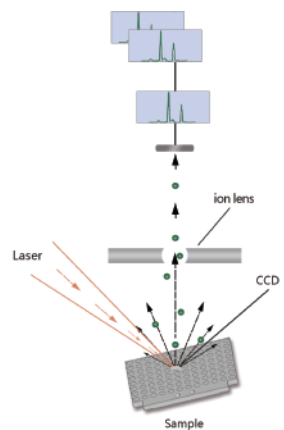
Automated mass spectrometry microbial identification system 20210508e

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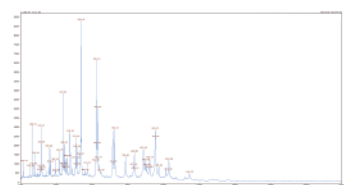
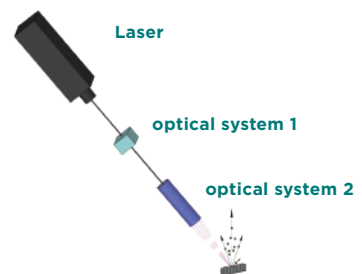


MALDI-TOF MS

- Since the 1980s, mass spectrometry technology has become a powerful method for protein analysis.
- Now, as an important member of mass spectrometry, MALDI-TOF MS (Matrix Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry) has entered the microbiological clinical laboratory for the identification of pathogenic bacteria.
- MALDI-TOF MS with its fast, accurate, cost effective, and constantly enrich the database and so on, which greatly improves the efficiency of clinical microbiology identification. Especially microaerobes, anaerobes, mycobacteria and fungi.



Professional mass spectrometry optical system



The principle of MALDI is to irradiate the co-crystal film formed by the sample and the Matrix with a laser, The matrix absorb energy from the laser and transfer it to biomolecules, so that the sample molecules are ionized.

Features

Fast detection speed >>>>

Solid-state with High repetition rate laser,optimal path algorithm, 96-well target plate detection only takes 7 minutes.

Long laser lifetime >>>>

The instrument is equipped with a high-performance solid-state laser, which can be used 7 billions of Laser shots.

High-performance beam shaping system >>>>

None stray beam, successfully solved the technical limitation of solid-state laser in microbial detection, achieving the perfect balance of performance, lifetime and speed.

Intelligent tandem vacuum system

- Oil-free membrane pre-vacuum pump with smaller small size, lower noise, and no risk of oil leakage. High-throughput turbomolecular pump, fast vacuum pumping speed, vacuum degree up to 10^{-7} mbar
- The Intelligent tandem vacuum system can greatly extend the lifetime of the molecular pump and shorten the waiting time for entering the target
- Perfectly solve the problem that the Oil-free membrane pre-vacuum pump cannot match the high pumping speed molecular pump under the condition of low pumping speed

Target Plate

- Reusable target holder and disposable target plate, no cross-contamination.
- Special target surface treatment technology, makes result more accurate.
- 96-well.

Instrument characteristics

Multi-species strain

- 1.More than 5000 species and 1000 genera, total more than 16000 standard spectrums.
- 2.The fungus database including more than 450 species, 100 genera, and a total of more than 2000 microbial standard spectrums.

Excellent instrument configuration

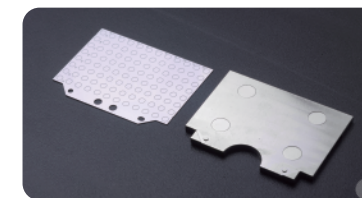
- 1.Perfect match of pre-vacuum pump and molecular pump
- 2.Excellent optical control unit.
- 3.Intelligent tandem vacuum system.

High-efficiency identification

1. Rapid sample identification, 96 well in just a few minutes.
- 2.Intelligent identification algorithm, single spectrum matching within 0.1 second.

Multi-connection

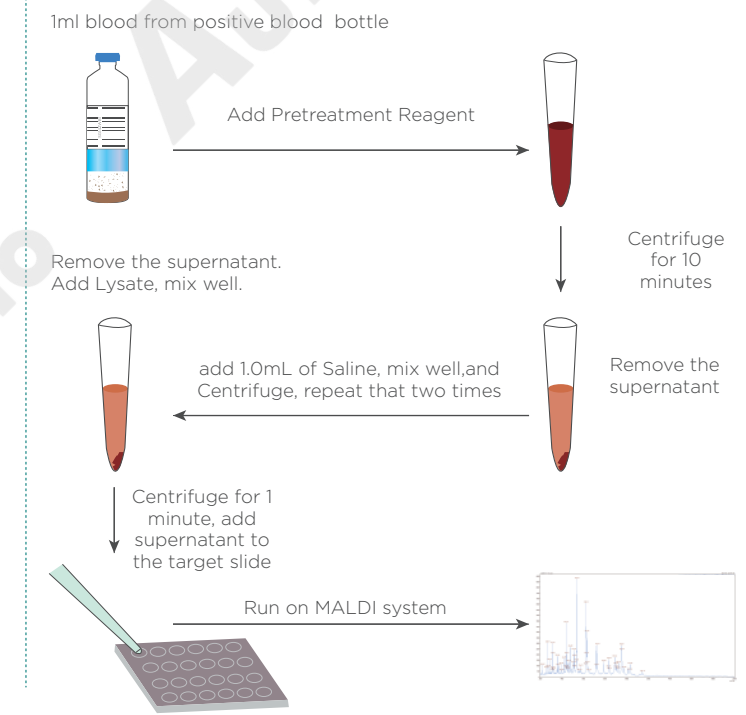
1. Database library online update supported.
- 2.Remote diagnosis available.
- 3.Bi-directional LIS connection supported.



Working flow



Workflow identification from positive blood culture bottles



*Please refer to the manual for detailed work flow

	Autof MS2000	Autof MS1000
Laser	355nm Solid-state laser • 0-1200 Hz repetition rate • -960 samples/hr • 7 billion laser shots	377nm Nitrogen Laser • 0-60 Hz repetition rate • -200 samples/hr • 60 million laser shots
Vacuum system	1.0×10^{-7} mbar Oil-free membrane pre-vacuum pump and turbomolecular pump	1.0×10^{-7} mbar 1 turbomolecular pump+ 1 mechanical pump
L x W x H	450mm*705mm*1250mm	450mm*705mm*1280mm
Weight	110kg	101kg
Common features	<ul style="list-style-type: none"> • 0.01um filter, 99.99% microorganisms can be filtered. • Autof Acquirer (with rapid ID function report within 0.1 second). • Customizable database. • Innovative optical design. 	