Instrument Parameters

Maximum capacity	64	Temperature of incubation area	35℃±1.5℃
Sample injection method	Automatic sample addition	Monitoring frequency	30min
Pipetting speed	<3min/120	Wavelength range	400nm-700nm
Pipetting accuracy	50μl±3μl 100μl±3μl 150μl±3μl	light source	LED
Pipetting repeatability	50μl、100μl、150μl，CV<3%	Number of filters	MAX 6

Reagents and Cards

NO.	Card Name	number of antibiotic	Range of Application
1	Gram-positive, GP	20	Staphylococcus, Enterococcus, Bacillus etc.
2	Enterobacteriaceae, EB	26	Escherichia, Salmonella, Shigella, Klebsiella, Enterobacteria, etc.
3	Non-fermenters, NF	22	Pseudomonas, Acinetobacter, Burkholderia cepacian, Steno-trophomonas maltophilia etc.
4	Streptococcus, ST	19	Streptococcus pneumoniae, β-hemolytic Streptococcus, Viridans streptococci.
5	Fungal, FG	10	Candida, Cryptococcus and Aspergillus etc.
6	Gram Negative bacteria ID/AST	19	Salmonella, Shigella, Escherichia, Pantoea, Morganella, Yersinia, Pseudomonas, Acinetobacter, Moraxella, Bordetella, Vibrio, Aeromonas, Pasteur bacteria, etc.
7	Gram Positive bacteria ID/AST	20	Corynebacterium, Bacillus, Listeria, Staphylococcus, Streptococcus, Enterococcus, Micrococcu etc.
8	YEAST ID/AST	9	Yeast type fungal.

The kit includes AST or ID/AST card and solutions, all ready to use.

INNOVATION · MANUFACTURE · INTEGRATION · SERVICE

AutoMic-i600

Automated Microorganism Identification and Antimicrobial Susceptibility Testing Analyzer

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 en.autobio.com.cn. Autobio Diagnostics Co., Ltd. | NO.87 Jingbei Yi Rd | National Eco＆Tech Zone | Zheng zhou City | China 450016.

You can find us on:
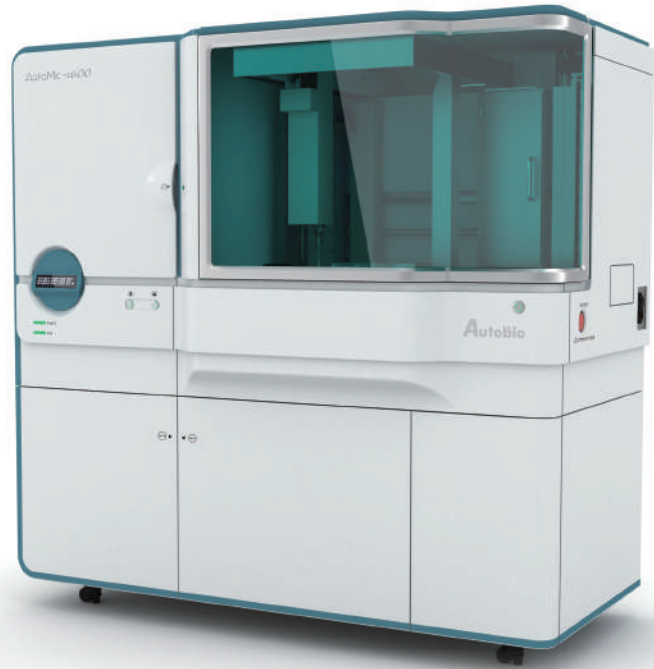Facebook: @AutobioGlobal
Youtube Channel: Autobio Diagnostics
Email: info@autobio-diagnostics.com
WhatsApp: +8618595767835
Tel: +86-371-6798-5313

Antibiogram

Gram-negative	Gram-negative	Gram-Positive	Gram-Positive	Fungus
Enterobacter card	Non-fermenting card	Gram-positive card	Streptococcus card	Yeast card
Amikacin	Amikacin	Ampicillin	Amoxicillin Clavulanic Acid	Amphotericin B
Amoxicillin/Clavulanate	Ampicillin sulbactam	Cefoxitin	Ampicillin	Anidulafungin
Ampicillin	Aztreonam	Ceftaroline	Cefepime	Caspofungin
Ampicillin sulbactam	Cefepime	Ciprofloxacin	Cefotaxime	Fluconazole
Aztreonam	Cefoperazone sulbactam	Clindamycin	Ceftriaxone	Itraconazole
Cefazolin	Ceftazidime	Compound trimethoprim	Cefuroxime	Micafungin
Cefepime	Ceftazidime Avibactam	Daptomycin	Chloramphenicol	Nystatin
Cefotaxime	Ceftriaxone	Erythromycin	Clindamycin	Posaconazole
Cefotaxime clavulanic acid	Chloramphenicol	Erythromycin aclindamycin	Compound trimethoprim	Voriconazole
Cefoxitin	Ciprofloxacin	Gentamicin	Erythromycin	5-fluorocytosine
Ceftazidime	Cotrimoxazole	High concentration gentamicin	Erythromycin clindamycin	
Ceftazidime Avibactam	Donipenem	High concentration streptomycin	Levofloxacin	
Ceftazidime clavulanic acid	Gentamicin	Linezolid	Linezolid	
Cefuroxime	Imipenem	Moxifloxacin	Meropenem	
Cotrimoxazole	Levofloxacin	Nitrofurantoin	Moxifloxacin	
Ertapenem	Meropenem	Orivancin	penicillin	
Gentamicin	Minocycline	Oxacillin	Rifampin	
Imipenem	Piperacillin tazobactam	Penicillin	Tetracycline	
Levofloxacin	Polymyxin B	Rifampin	Tigecycline	
Meropenem	Tetracycline	Teicoplanin	Vancomycin	
Moxifloxacin	Tigecycline	Tetracycline		
Nitrofurantoin	Tobramycin	Tigecycline		
Piperacillin tazobactam		Vancomycin		
Sulbactam Cefoperazone		Sulbactam Cefoperazone		
Tetracycline		Tetracycline		
Tigecycline		Tigecycline		

Automated microorganism identification and antimicrobial susceptibility testing analyzer AutoMic-i600 can quickly and accurately identify microorganism by biochemical and detect antibiotic sensitivity in vitro.

In the identification part of this product, the identification results of the bacteria were determined by comparing with the database about biochemical reaction, such as carbon source utilization, enzyme activity and antibiotic resistance of the bacteria.
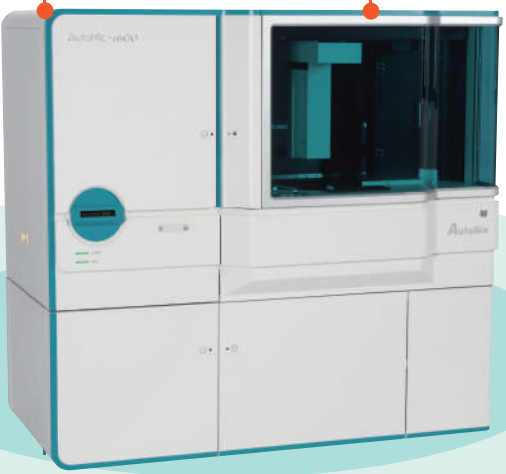
Advantages

64 cards incubation position, to meet the testing needs of all levels of users.

Stable X, Y, Z axis structure and incubation tower design, automatically complete sample addition, incubation, and result interpretation.

2 methods (Colorimetric, turbidimetric) determination, continuous automated regular interpretation, and AI intelligent algorithm model make the results are more accurate.

The design of random placement of cards, the two-way intelligent identification and matching of cards and specimens.

Software

Customized report templates to meet diverse needs.

Two-way identification, full barcode paperless management, accurate traceability.

An expert system based on CLSI and Eucast standard, providing continuous upgrade services, authoritative and reliable interpretation of results.
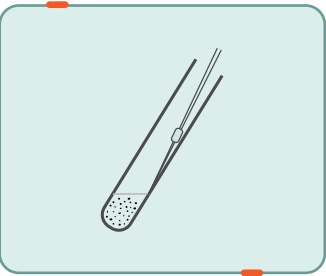
Two-way identification, full barcode paperless management, accurate traceability.

The strain library, database and expert system jointly constructed by multiple centers, meet the needs of identification.

Automatic correction of the sensitivity interpretation of natural and forced resistance, including ESBLS, CRE, MRSA, VRE, PRSP, high levels of aminoglycosin resistance and clindamycin induced resistance.
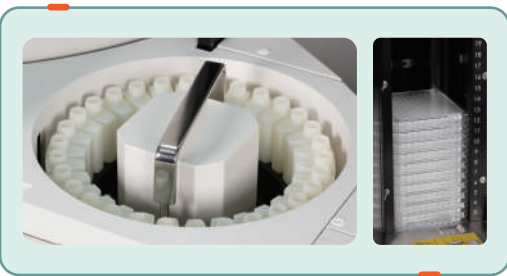
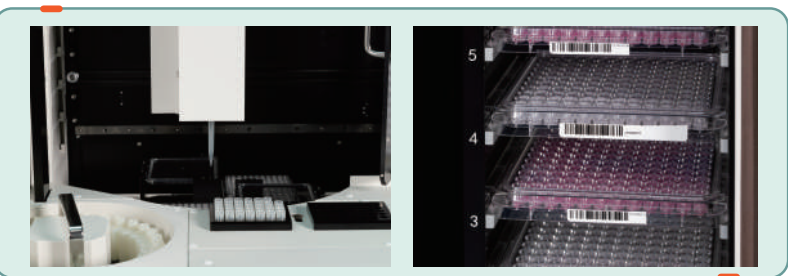## Testing steps

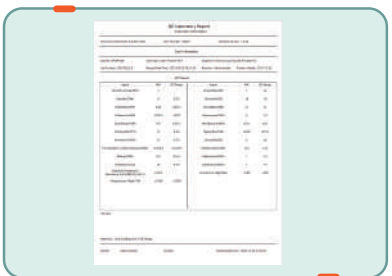*1* Prepare bacterial suspension

2 Add the staining solution

3 Place bacterial suspension and AST cards

4 Automatically sample addition, incubation and detection

5 Report results

Resistance phenotype detection

MRSA   Methicillin-resistant Staphylococcus aureus.

D test   Erythromycin induces clindamycin resistance.

VISA   Vancomycin-mediated Staphylococcus aureus.

VRSA   Vancomycin-resistant Staphylococcus aureus.

VRE   Vancomycin-resistant Enterococcus.

PRSP   Penicillin-resistant Streptococcus pneumoniae.

HLAR   High-level aminoglycoside-resistant enterococci.

ESBL   Extended-spectrum β-lactamase producing bacteria.

CRE   Carbapenem-resistant Enterobacteriaceae.

FOX   Cefoxitin Screening Test.

CRAB   Carbapenem-resistant Acinetobacter baumannii.

CRPA   Carbapenem-resistant Pseudomonas aeruginosa.

CRKP   Carbapenem-resistant Klebsiella pneumoniae.

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ID library performance

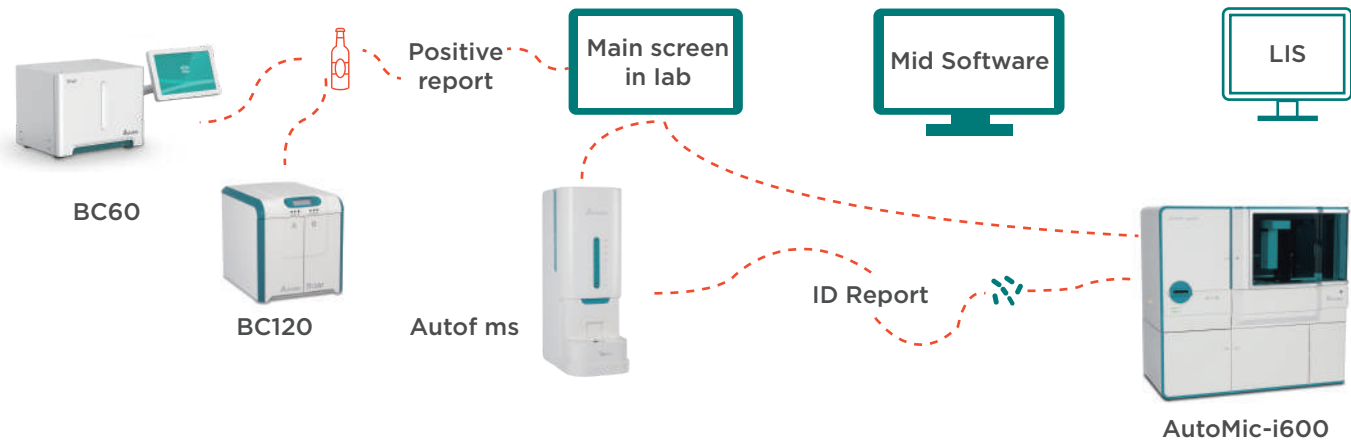More than 500 species can be identified.

The identification system adopts dynamic continuous detection method, and the identification time can be shortened to 3-20h.

The identification system has a self-built library function, and can establish a customized database according to regional and seasonal differences to identify mutant strains.

The identification system is based on the biochemical reactions and taxonomic nomenclature of "Berger's Handbook of Bacterial Taxonomy" and is updated in real time according to the LPSN database. The identification system adopts the combination of numerical classification method and "fingerprint" method, and the identification result is more accurate.

The identification system has more than 3000 strains in the library.

Autobio information management system

BC60

BC120   Autof ms

Positive report

Main screen in lab

Mid Software

LIS

ID Report

AutoMic-i600

▶ It can be connected with Autobio Microbiology Information System to realize the data sharing and multi-dimensional statistical analysis of blood culture results, microbial detection process and automatic report of negative results.

▶ Realize the interconnection of satellite blood culture and central blood culture system to reduce the TAT time of samples.