

MICROBIAL ID/AST SYSTEM ABI9600



Intro

Automated Bacterial Identification System is an automatic apparatus that can be operated easily and quickly; It can be used for type identification of common pathogenic bacteria and quantitative analysis on antimicrobial drug sensitivity.

The analyzer has the proprietary intellectual property rights with advanced technology.

Application Area: is often used for hospital clinical bacterial identification and drug sensitivity analysis, and it can also be used in the fields of livestock, fishery, commodity inspection, environmental protection, food, epidemic prevention, scientific research and education etc.

System Structure Automated Bacterial Identification System consists of identification machine and mating reagent kit. The identification machine is made of host machine, bacterial identification drug sensitivity analysis software, displayer and printer etc.

Features

1. Identification scope:

It can identify various common microorganisms, like enterobacter, nonfermenters, staphylococcus, streptococcus, enterococcus, micrococcus, listeria, fungus, vibrio, hemophilus, Campylobacter, Neisseria, positive bacilli and anaerobe (in aerobic environment). Most pathogenic microorganism can be identified directly to species, and some may be identified up to subspecies or subtype.

2. Drug sensitivity test:

Clinically applicable antibiotic and its concentration gradient are set according to CLSI Standard. Such setting covers nearly all frequently- used antibiotics clinically, and the drug sensitivity results are classified based on antibiotics into Group A, Group B, Group C, Group U and Group O etc.

3. Expert System:

An intelligent expert system is set up based on biochemical reaction features and CLSI standard. It can automatically conduct secondary review and analysis check on bacteria and drug sensitivity results, point out and correct abnormal results. It can also make analysis and indication of special drug resistance mechanisms like MRS, MRSA, HLAR, KPC and VRE.

4. The mating reagent kits are complete in variety and easy to operate:

- Identification reagent kits: enterobacter, nonfermenters, staphylococcus, streptococcus, fungus, vibrio
- Drug sensitivity reagent kits: enterobacter, nonfermenters, staphylococcus and streptococcus.

5. Detection principle:

- Colorimetry and Turbidimetry

6. Detection technology:

- The photoelectric hole-by-hole detection technology

7. Inspection time:

18-24h and the fastest is 4-6h

8. Inquiry & statistic function:

The software of identification machine has strong inquiry and statistic function. It can be operated in many ways to provide the maximum data support to hospital epidemiological survey, drug-insistence trend analysis and hospital infection management.

9. Quality control function

The software has indoor quality control function, and it can detect the ATCC reference culture and meet quality control requirements

10. Hospital infection monitoring function:

The software has hospital infection monitoring functions, which can type in, modify, delete and print the hospital infection monitoring data.

11. LIS system connection
12. WHONET data conversion
13. The software can be updated all the time for free.



Specification

Detection principles	Colorimetry is employed for bacterial identification; turbidimetry for the analysis of drug sensitivity.
photoelectric detection	Taking the identified technology of optical fiber of hole by hole. No interference within holes. No need recheck identified result by man. Avoid the traditional identification way of scanning and CCD, Identified result is correct, no need to recheck by man
Reagent kit varieties	Enterobacteria, Nonfermenter, staphylococcus, streptococcus, enterococcus, micrococcus, Listeria, epiphyte, vibrio, hemophilus, campylo bacteria, Neisseria, positive bacillus, anaerobic organism
Culture plate material	Taking Micro-hole culture plate with 18-96 hole and their holes cover.
Fastidious bacteria and Anaerobic bacteria identification	Can be identified with oxygen and without oxygen
flexibility	Making antibiotic combination according to customers needs
Reagent plate design and prepare	Provide reagent plate with combination of identification and drug sensitivity analysis, each of the combination is available
Bacterial database	About 2000 species
Combination of drug sensitivities	Medicine varieties those are from CLSI, MIC scale is 3-8 level; random combination between medicine varieties and the Levels
Expert system	Intellectual expert system that is set out according to the newest CLSI standard are included bacterial identification and drug sensitivity, which can recheck and efficacy analysis result for two times, Timely report and revise multi -system of drug tolerances of clinical importance by rules. Abnormal results are automatically prompts and error correction; same time, be able to analyze and tips specific resistance mechanisms MRS, MRSA, HLAR, KPC, VRE, etc.
Report form	A,B, C, O,U five groups result report of drug sensitivity can be printed based upon CLSI, each report is written with MIC and S. I. R. report combination can be taken.
Data processing	Data storage capacity is unlimited, strong functions of tracking and analysis, set out conditions of tracking and statistics according to needs
Service	Provide professional service for clinical microbiological lab configuration and technology support, and expertise by internet
Identification speed	60-80 specimen per hour
Identification time	18- 24 hours , 4-6 hours fastest
Quality system	Certified of ISO9001/13485/CE
Main components	Main host, Accessories kit, Analysis software, Display (Optional), Printer (Optional)