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Automated Blood Culture System

BC120

Autobio Diagnostics Co., Ltd.

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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Autobio automated blood culture system adopts advanced non-invasive and visualization technology with a unique optical detection system realizes full automation of blood culture testing; its stable temperature control system and reliable vibrating module greatly shortens the detection time of positive results and reduces the false positive rate.

▶ ADVANCED DETECTION SYSTEM

Control system

- High configuration control system is convenient to data storage and analysis.
- LIS connection available.
- Analysis management software available.



Mainframe

- 2 incubator drawers of 60 cells deliver 120 cell capacity.
- The instrument can carry out cascade connection.
- High-precision temperature control system keeps constant temperature of culture bottle.
- Continuous detection in each 10 minutes, minimum positive sample detection time is 3 hours.
- Size(W*D*H,mm): 510*685*590
- Weight: approximately 120kg
- Power supply: AC 100-240V,800VA

Software

- Non-invasive detection reduces pollution and ensures accurate results.
- 3 test steps: click-scan-load bottle.
- 3 result conversion modes, anonymous and deferred bottles detection supported.
- 3 alarm methods: voice, light, electricity.
- Visualized and graphical interfaces, bacterial growth curve assure clear detection report.
- Statistical analysis of blood culture status and workload data.



Features

- Variety types of culture bottles including standard, resin and pediatric.
- Special selected V and X factors added on the culture medium improves detection rate of fastidious bacteria.
- Addition of Macroporous resin and cation resin assure great capability of antibiotic neutralization.
- Vacuum quantitative blood collection supported.
- Double bar code management for traceability of analysis.
- High-strength plastic material of the bottle guarantees reliable bio-safety.
- Minimum positive sample detection time is 3 hours.
- Validity time of reagents up to 12 months at room temperature.

▶ RESULT JUDGEMENT MODES

3 modes

- 1 Acceleration mode used in the initial stage of bacterial growth shortens detection time.
- 2 Efficiency mode used in the medium stage of bacterial growth depresses error rate.
- 3 Threshold judgement mode affords excellent deferred entry function.



Blood culture bottles

- Standard Aerobic/Anaerobic bottle.
- Resin Aerobic/Anaerobic bottle.
- Standard Pediatric bottle.
- Resin Pediatric bottle.
- Mycobacteria bottle.

▶ COMPARISON OF ANTIBIOTIC ADSORPTION CAPACITY

For antibiotic adsorption, active carbon is common used, Autobio **BC120** selected resin. Here is the comparison of active carbon and resin in antibiotics adsorption:

