

INNOVATION · MANUFACTURE · INTEGRATION · SERVICE



Automated Blood Culture System **BC120**

Chirus Limited

Chirus has brought together a range of innovative platform technologies covering a broad spectrum of laboratory medicine which includes clinical chemistry, haematology and microbiology. Our core focus is on leading edge rapid diagnostic technologies that can bring significant benefit to patient care.

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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.

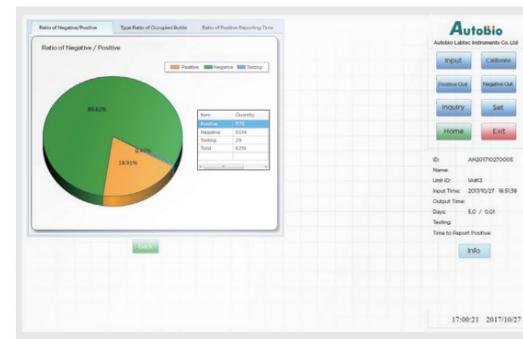


Mainframe

- 2 incubator drawers of 60 cells deliver 120 cell capacity.
- Control module handles up to 5 incubator modules for capacity up to 600 cells.
- 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 will be available soon.

▶ 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:

