

FA-N120

Automated Microbial Culture System

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Specifications of Culture Bottles

Types and Models

Aerobic culture bottle (AC)

Anaerobic culture bottle (NC)

Pediatric aerobic culture bottle (PC)

Packing Specifications

25 bottles/box, 50 bottles/box

Supported Sample Types

Blood and other sterile body fluids

Blood Sampling Tips

Adults: Each bottle should contain a sample volume of 5–10 mL.

Children: Each bottle should contain a sample volume of 1–3 mL.

Specifications of the Culture System

Operating system: Linux

Memory: 32 GB

Automatic backup available

Normal test environmental conditions

Ambient temperature: 10 °C ~ 30 °C

Relative humidity: 10% ~ 90% RH

Atmospheric pressure: 80.0 kPa ~ 106.0 kPa

Operating altitude: -400 m ~ 2000 m

Power Requirements

Power voltage: ~220 V ± 10%

Frequency: 50 Hz ± 1 Hz

Power: 600 VA for FA-N120

Dimensions and Weight

Unit	Dimensions (Width x Depth x Height mm)	Weight (kg)
Main unit	≤ 560 x 690 x 900	≤ 120
Extension unit	≤ 290 x 690 x 900	≤ 85

Extension Mode

	FA-N 120
Extensibility	Up to 3 modules (480 bottle positions)
Throughput	24 bottles/day, extensible to 96 bottles/day



References

[1] Hardy, Liselotte, et al. "Affordable blood culture systems from China: in vitro evaluation for use in resource-limited settings." EBioMedicine101 (2024).

[2] Aydemir, Özlem, et al. "Comparison of time-to-detection of Mindray TDR and BacT/ALERT® 3D blood culture systems using simulated blood cultures." Acta Clinica Belgica 79.3 (2024): 168-173.

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Automated Microbial Culture System

Rapid Diagnosis of Bloodstream Infections With Optimized Workflow



Mindray Medical Official WeChat Service Center Official WeChat

Service Hotline 400 700 5652
www.mindray.com

P/N: ENG-FA-N120 Automated Microbial Culture System-210285X4P-20241030

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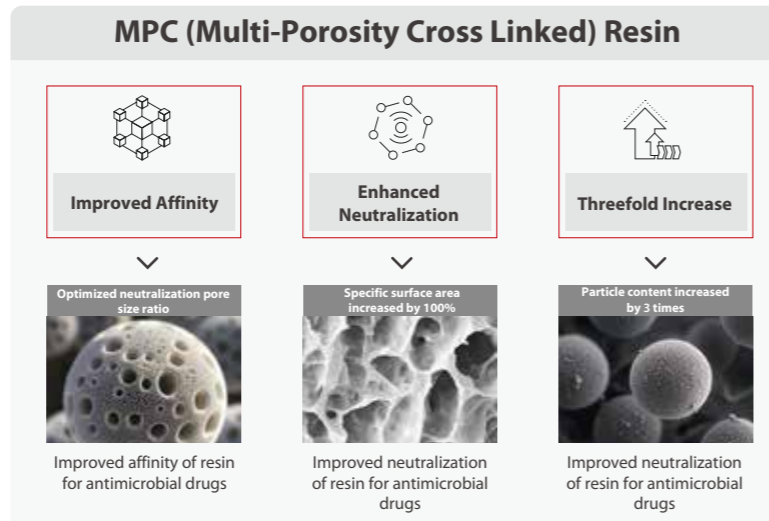
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生命科技如此亲近

Quality Results Enhanced Antibiotic Neutralization and Enriched Culture Media Enable Early Detection of Bloodstream Infections

Enhanced Neutralization | For Multiple Antimicrobials

MPC (Multi-Porosity Cross Linked) resin neutralizes 17 categories of antimicrobials, such as *Imipenem*, *Meropenem*, *Piperacillin-tazobactam*, *Cefoperazone-sulbactam*, *Tigecycline*, *Vancomycin*, *Levofloxacin*, *Amikacin*, *Colistin*, *Caspofungin*, *Voriconazole*, and *Amphotericin B*.



Enriched Culture Media

A set (aerobic and anaerobic bottles) is able to recover and detect a broad range of microorganisms (bacteria and fungi)^{[1][2]} in blood and other sterile body fluid samples.

Multi-nutrient Factor Formula

Fastidious bacteria (difficult to grow)

Haemophilus influenzae, *Streptococcus pneumoniae*, *Streptococcus pyogenes*, *Cardiobacterium hominis*, etc.

A variety of growth factors for fastidious bacteria are added to solve the problem of nutrient adsorption by resin and promote the growth of fastidious bacteria

Smooth surface of normal resin under an electron microscope

Nutrients adsorbed onto resin under an electron microscope

Fungi (easily attachable)

Candida glabrata, *Cryptococcus neoformans*, etc.

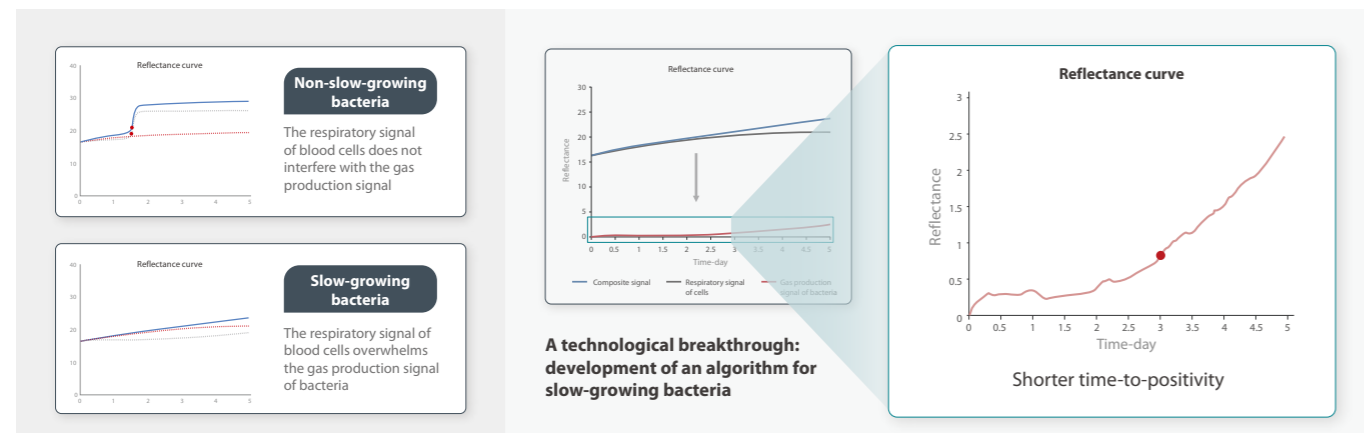
Anti-adsorption factors are added to prevent fungi from enveloping and growing on the resin, which shortens the time-to-positivity

Microorganisms adsorbed onto resin (with anti-adsorption factor) under an electron microscope

Microorganisms adsorbed onto resin under an electron microscope

Shorter Time-to-Positivity

Reduced interference from blood cell respiration, along with a customized algorithm for slow-growing bacteria, such as *Talaromyces marneffei*, and *Cryptococcus neoformans*.



Efficient Results An Extensible and Intelligent POC Information System Enables Effective and Qualified Results

Integrated | In-time Blood Volume Monitoring Technology



Point-of-care | Satellite Blood Culture System



Intelligent | Data Management Software

