

## Core Products:

- Blood Culture Bottle
- Automated Blood Culture System



## Hapyear Bio-engineering



*Bottle-Instrument Synergy, One-Step Automated Detection*

## Automated Blood Culture System (Chromogenic-based Detection)

**Chromogenic** → Sensor Film Color Change  
**Fluorescent** → Rapid Signal Detection

- Positive results → Sensor film change to yellow.
- Independent detection positions allow on-demand loading of culture bottles —significantly improving workflow flexibility without affecting detection accuracy.
- Rotating Continuous Shaking | speed and wider microbial coverage.
- Power Failure Memory | Auto-Resume Incubation After Power Recovery
- Self-Test & Calibration | Fully Automated QC
- Multi-module Online & Scalable



ABC-40



ABC-60



ABC-120



ABC-240

## Automated Blood Culture System (Fluorescent-based Detection)



ABC-60

- Fluorescence Detection: Signal Fluctuation for Rapid Identification
- Barcode Positioning: Ensures Sample-Report Consistency
- 2-Step Detection: Scan Barcode → Load to Analyzer | Time-Saving & Efficiency Boosting

- Intuitive Interface: Quick Access to Preset Programs
- LIS/HIS Compatible + Functional Expandable
- USB/COM/Network Ports | Easy LIS/HIS Connection



ABC-40

## Automated Blood Culture System Models *Chromogenic&Fluorescent*

- HAPYEAR-ABC-40
- HAPYEAR-ABC-60
- HAPYEAR-ABC-120
- HAPYEAR-ABC-240

## Aerobic/Anaerobic Culture Bottle (Chromogenic-based Detection)



### Core **Chromogenic** Technology



- A distinct color change in the built-in reagent signals microbial growth, enabling fast, visual positive culture identification. No complex equipment needed for initial screening — streamlining workflow with reliable results.
- Plastic culture bottles offer enhanced safety, significantly reducing risks of accidental leakage, operator cuts, and microbial contamination.
- Weighing only half as much as glass alternatives, these bottles greatly simplify recycling and transportation processes.
- Integrated adsorption resin neutralizes antibiotics present in samples, guaranteeing high-efficiency microbial cultivation.
- Compatible with major international instruments.

## Aerobic/Anaerobic Culture Bottle (Fluorescent-based Detection)

### Core **Fluorescent** Technology

- Fluorescent-based detection: Boasts higher sensitivity to trace microbial metabolites, enabling earlier identification of positive culture results (outperforming traditional methods).
- Optimized for low-concentration samples: Maintains stable signal output even with minimal microbial growth.
- Plastic culture bottles offer enhanced safety, significantly reducing risks of accidental leakage, operator cuts, and microbial contamination.
- Weighing only half as much as glass alternatives, these bottles greatly simplify recycling and transportation processes.
- Integrated adsorption resin neutralizes antibiotics in samples, ensuring efficient microbial cultivation.
- Compatible with mainstream international fluorescent detection instruments



### **Chromogenic&Fluorescent** Culture Bottle Specifications

- |                                |                                  |
|--------------------------------|----------------------------------|
| ● Plus/F Aerobic Bottle        | ● Standard Aerobic Bottle        |
| ● Plus/F Anaerobic Bottle      | ● Standard Anaerobic Bottle      |
| ● PEDS/Plus/F Aerobic Bottle   | ● Peds Standard Aerobic Bottle   |
| ● PEDS/Plus/F Anaerobic Bottle | ● Peds Standard Anaerobic Bottle |

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