

Hapyear® HAPYEAR Automatic Blood Culture System

Blood culture is the simplest, most accurate and direct method for detecting bloodstream infections such as bacteremia, septicemia, fungemia and sepsis, and is considered as the **Gold Standard** for the diagnosis of bloodstream infectious diseases!



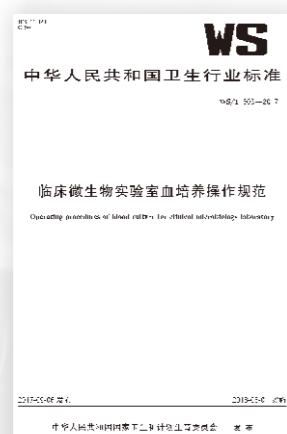
Relevant Requirements of WS/T503-2017 and WS/T640-2018

● Detectable samples in blood culture media

Blood, bone marrow, cerebrospinal fluid, deep pus, pleural and peritoneal effusion, pericardial effusion, synovial fluid, peritoneal dialysate, catheter fluid, etc.

● Indication and Collection Set of Blood Culture

Indication	Collection Set
Acute Sepsis	2-3 sets of blood cultures should be collected from different sites within 10 min prior to antimicrobial drug therapy.
Acute Bacterial Endocarditis	3 sets of blood cultures should be collected from 3 different sites within 1-2 h prior to antimicrobial drug therapy. 2 more sets should be collected if the cultures are negative after 24 h.
Suspected Bacteremia	2-4 sets should be collected from different sites within 24 h, with an interval of ≥ 3 h.
Fever of Unknown Origin	2-4 sets should be collected from different sites.
Suspected Bacteremia (Pediatric Patients)	Collect blood samples and inoculate them in the blood culture media for children, recommending the collection of 2 sets.
Catheter-related Bloodstream Infections:	Method 1. Without removing the catheter, collect blood from the indwelling catheter and peripheral veins simultaneously, and collect a set of blood for culture respectively; Method 2. With the catheter removed, cut off the 5 cm catheter tip and send it for culture, and send a set of peripheral blood for culture simultaneously.



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HAPYEAR-ABC-120^{PLUS}



HAPYEAR-ABC-240^{PLUS}



HAPYEAR-ABC-480^{PLUS}

High-quality Culture Media + Third-generation Positive Algorithm = Blood Culture System with High-detection Rate!

- Positive algorithm: Unique *Scattering Algorithm for Feature Recognition* of Hapyear, with high detection rate!
- User-friendly operating software: providing man-machine dialogue, simple operation and excellent user experience.
- New IC technology: Stable operation, without loss of data in power failure, and fault-free over 1000 days after installation!
- Powerful data management capability: Supporting the query, storage, statistics and analysis of data.
- Various interfaces: Supporting LIS, HIS networking, and software function extension.

Hapyear

Equipment parameter

Function: To culture and detect the pathogens of clinically suspected infection in the bloodstream, providing the basis for the diagnosis and medication of clinical infectious diseases; To monitor the pathogens by the centers for disease control at all levels, such as the culture and detection of *Brucella*; To perform sterility test on blood products by the blood stations; To facilitate the quality control of biological products and sterile fluids from pharmaceutical enterprises.

Positive Algorithm

In addition to the traditional algorithms, a unique Scattering Algorithm for Feature Recognition by Hapyear is applied to effectively improve the positive rate.

Applicable Sample

Blood, cerebrospinal fluid, pleural and peritoneal effusion and other sterile fluids.

Organism Spectrum for Detection

Aerobes, anaerobes, facultative anaerobic Gram-positive/negative bacteria, fastidious bacteria, fungi, etc.

Test Sample Size

60 wells for single module of HAPYEAR-ABC-60, with the capability of concurrent operation with multiple modules 120 wells for single module of HAPYEAR-ABC-120, with the capability of concurrent operation with multiple modules for expansion

Culture Method

Shaking continuously.

Alarm Mode

Visual, audible and color alarm.

Data Management

Built-in large-capacity storage unit, with compliance with the USB drive.

Simple Operation

Simplified and Natural man-machine dialogue, easy for the loading and unloading of bottles and the query for culture condition.

Non-volatile Memory

with non-volatile memory, automatically continuing the culture after the resumption of power.

Auto Calibration

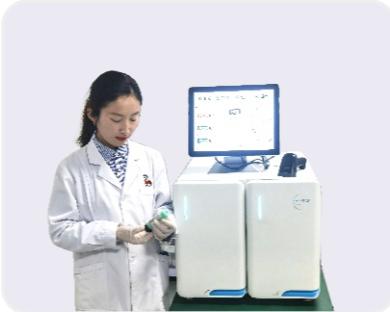
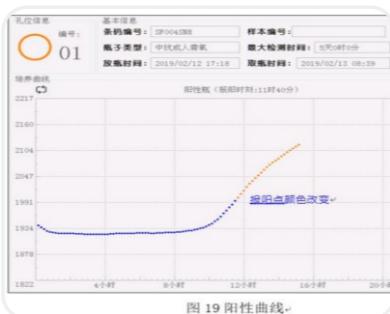
The check bit is provided with self-checking and self-correcting functions to enable the automatic quality control.

Information Retrieval

Supporting the input and query with multiple codes, such as culture media barcode, patient barcode, etc.

External Interface

with the interfaces for USB, COM, network cable, convenient for LIS and HIS networking.



Provided with Blood Culture Media with High-detection Rate

Compatible with imported instruments, with consistent detection rate and detected organism spectrum with those of imported products!



● Specification

Aerobes, anaerobes, facultative anaerobic Gram-positive/negative bacteria, fastidious bacteria, fungi, etc.

● 3D sensing membrane exclusively provided by Hapyear

● High-quality medium

Free of anti-animal raw materials and growth factors, and suitable for the growth of aerobes, anaerobes, fungi and fastidious bacteria.

● Precisely-proportioned gas atmosphere in media

● Effectively neutralize the bacteriostatic factors such as antibiotics and complements to improve the detection rate

● Effectively prevent the aerosols with patented design of safety cap

Test sensitivity

