



Specifications of Auto Blood Culture System **ESBT.240**



Instrument Features & Specifications

* **Test Principles**

Colorimetry

* **Sample Type**

Blood and various sterile body fluid specimens

* **Capacity (expandable)**

240 bottles

* **Detection Method**

Continuous swing vibration

An independent detector in each position, providing real-time status

Detect the bottle every 10 minutes, 24 hours non-stop monitoring

* **Heating Method**

Module temperature control

Independent cell heater to avoid temperature dropping

Flexible temperature setting for different microbes

* **Interpretation Method**

Sustained acceleration, Growth Rate and Initial threshold

* **Sample Loading**

Able to accept samples in random position and at any time in each rack

Able to resume the procedure if a sample is picked up and reinserted within at least 2 hours

Able to process samples with a late arrival up to 48 hours

* **Working Environment**

Environmental temperature: 5°C--37°C

Relative humidity: 10%--90%

* **Operation System & Software**

Internal computer with process control, data storage and analysis, patient management and exam reporting capability

Real time identification and warning, with audio, visual and software alarm, of positive samples

* **Atmospheric Pressure**

76kPa--106kPa

* **Power Supply**

AC 100-240V, 50/60 HZ

* **Dimension & Weigh**

720*530*715mm X 4CTNS; 188kg (47X4)

Blood Culture Bottle Features & Specifications

* **Bottle Type**

Adult aerobic blood culture bottle

Adult anaerobic blood culture bottle

Children's blood culture bottle

* **Package**

40 bottles/box Box size:282*177*127mm G.W.:2.6 kg

6 boxes/carton Carton size:500*300*275mm G.W.:16.1kg

* **Bottle Design**

Made of Multilayer polymeric fibers

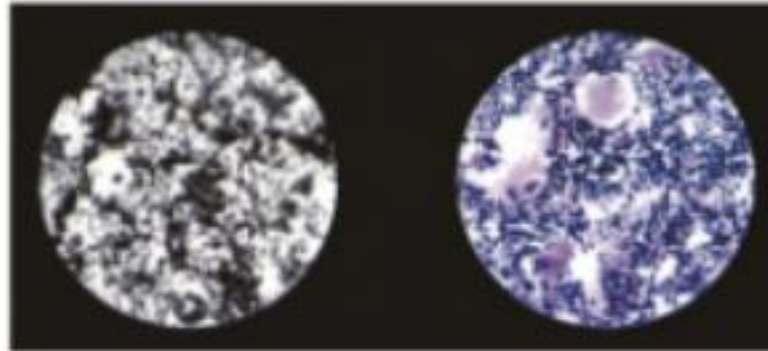
Light weight and unbreakable, avoid biohazard

Special formula of media to improve the cultivation of fastidious bacteria

Resin microsphere guarantees antibiotics absorbing, prevents antibiotics interference; It lyses WBC and release bacteria inside to improve detection rate; Microsphere also provides enough surface for bacteria growing;

Colorless resin design completely avoids interference of gram stain against activated carbon

Resin Microspheres has great advantage over active carbon, which is fully reflected in smear staining to positive blood culture specimen. The left one shows the specimen smear of active carbon bottle, so we can see the background with few clouds of black that must influence on observation on smear and seeking bacteria. The right one shows the specimen smear of resin culture bottle, which is almost transparent, so the visual field of it is very clear and the bacteria can be found easily.



* Result Reporting Time

Bacteria name & type	Colony-Forming Units(CFU)	Result report time(h)
S. pyogenes, S. pneumoniae	≤100	10 – 15
A. P.aeruginosa A. baumannii	≤100	11 – 18
E. coli, S.aureus	≤100	4 – 12
Haemophilus, gonococcus	≤100	20 – 36
Fungus,Brucella	≤100	15 – 48



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