Reliable, cost-effective and versatile blood culture solutions

Improve patient outcomes through excellence in recovery with a complete range of blood culture products to accommodate laboratories of all sizes.
Blood cultures are one of the most important tests performed in the laboratory today due to high morbidity and mortality rates associated with sepsis. It has been estimated 20–50% of patients with severe sepsis will not survive.¹

The solution to improving patient care requires rapid, accurate detection of bacteria and fungi in the blood. Whether you need manual or automated detection, Thermo Scientific Blood Culture Solutions are your complete source for blood culture test products, with proven excellence in both bacterial and fungal recovery.

Thermo Scientific Blood Culture Solutions include a variety of testing options to support your preferred test method and volume requirements, from manual blood culture bottles to fully automated instrumentation enhanced with software and Laboratory Information System (LIS) connectivity. Delivering reliable performance for quality results, Thermo Scientific Blood Culture Solutions are backed by a dedicated team of microbiology experts that can only come from the world leader in serving science.

The Thermo Scientific Signal Blood Culture System is a unique one-bottle media system accommodating all patient populations and scenarios. The system requires only the most basic laboratory equipment, making it appropriate for both low or high volume laboratories. Only one bottle is needed to detect most aerobes, anaerobes and microaerophilic organisms.

More than just a blood culture bottle, the technology behind the Signal™ Blood Culture System ensures easy-to-read results. The Signal System detects gases produced during organism metabolism, which cause an increase in pressure in the sealed bottle, forcing some of the blood/broth solution into the Signal growth indicator chamber device. The result is a clear, visual positive display.

Utilizing the unique growth indicator chamber device, the Signal Blood Culture System also ensures safe sampling, eliminating the need for needles for Gram stain and subculture. Additionally, the chamber reduces the potential for contamination, since samples are taken directly from the sampling chamber, rather than bottle broth.

**Signal Blood Culture System.** Use the Signal Blood Culture System to detect microbial growth, facilitating the rapid isolation, identification and antimicrobial susceptibility testing of cultured organisms.

- **Single bottle, manual blood culture system** • • • Minimizes laboratory cost
- **Unique broth medium** • • • • • • • • • • • Enables recovery of a wide range of aerobes, anaerobes and microaerophilic organisms
- **Integral growth indicator device** • • • • • • Allows easy identification of positive samples, improving patient outcomes
- **Eliminates needle requirement for subculture** • • Safe to work with
- **Recover organisms from other body fluids** • • • Improves patient outcomes

— Manual Solutions
The Thermo Scientific VersaTREK System provides value, versatility, flexibility and excellence in recovery in an easy-to-use, fully automated system. Through its unique, comprehensive detection technology and simplified, highly enriched two-bottle media system, the VersaTREK™ System provides faster results leading to better patient care.

The VersaTREK System is the only instrument that offers four FDA-cleared tests on one platform, providing efficiency, space savings and cost containment.

- Blood culture
- Sterile body fluids
- Mycobacteria detection
- Mycobacterium tuberculosis susceptibility testing

Need more testing capacity? Simply add drawers for additional testing locations.
VersaTREK is the only system capable of detecting any gas produced or consumed by organisms. Because it is not limited to CO₂ production like other systems, VersaTREK is able to detect a wider range of both common and fastidious organisms. This unique detection technology means faster results with fewer limitations, reducing length of stay and therapy costs, and promoting better patient care.

**Organisms that signal on gas production**

- Staphylococcus aureus
- Staphylococcus epidermidis
- Streptococcus pneumoniae
- Enterococcus faecalis
- Escherichia coli
- Candida albicans
- Klebsiella pneumoniae

**Organisms that signal on gas consumption**

- Brucella suis
- Helicobacter spp.
- Nocardia spp.
- Campylobacter spp.
- Brevundimonas vesicularis
- Rhodococcus equi
- Trichosporum beigelii

**Proven performance**

The VersaTREK System’s comprehensive detection technology, combined with over 15 years of media excellence, provides superior fastidious organism recovery.
VersaTREK includes a number of features to promote ease of use and enhance workflow:

- Easy scan function for bottle entry
- Simple bottle removal; no scanning-out when testing has completed
- Intuitive icons to reduce training time
- Rapid resolution of transposed bottle and accession numbers
- No daily QC required!

Critical results in one touch
VersaTREK software provides one-touch access to all patient samples and results. Intuitive icons make navigation simple, and powerful search capabilities provide critical information, even if your LIS is down.
Reliable, ongoing support
from a dedicated team of microbiologists

Thermo Fisher Scientific is dedicated to providing an efficient and organized conversion process, from accurate order placement and successful installation, through training and validation support. Our technical support teams have experienced microbiologists available via phone or email, to quickly and accurately respond to your inquiries. Technical service personnel are also available 24-7 with remote access to your VersaTREK System, making troubleshooting simple.

Dedicated to microbiology and committed to our customers, we are your partners in microbiology.

Discover why laboratories around the world are choosing Thermo Scientific Blood Culture Solutions

For more information, contact your Instrument Sales Specialist in the U.S. at 800 871 8909, or internationally at +44 1342 318777.
Signal Blood Culture System Specifications:

**Pack contents:** 20 bottles and 20 growth indicator devices. Order code: BC0100M

**Accessories:** Pack of white disposable shaker/incubator trays (each tray holds up to 10 bottles). Order code: BC0104A.

### VersaTREK Instrument Specifications:

<table>
<thead>
<tr>
<th></th>
<th>528 Model:</th>
<th>240 Model:</th>
<th>240 Model w/ cart:</th>
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</thead>
<tbody>
<tr>
<td>Height:</td>
<td>76 1/4 in.; 194cm</td>
<td>40 1/4 in.; 103cm</td>
<td>76 in.; 193cm</td>
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<tr>
<td>Width:</td>
<td>52 in.; 132cm</td>
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<tr>
<td>Depth:</td>
<td>30 3/4 in.; 78cm</td>
<td>30 3/4 in.; 78cm</td>
<td>30 3/4 in.; 78cm</td>
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<tr>
<td>Weight (without bottles):</td>
<td>1,212 lbs; 550kg</td>
<td>666 lbs; 298kg</td>
<td>1,158 lbs; 525kg</td>
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<tr>
<td>Distributed load* w/ bottles:</td>
<td>132 lbs/ft²; 644kg/m² (528-22)</td>
<td>70 lbs/ft²; 333kg/m² (240-10)</td>
<td>115 lbs/ft²; 561kg/m² (240-10)</td>
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<tr>
<td>Distributed load* without bottles:</td>
<td>109 lbs/ft²; 532kg/m² (528-22)</td>
<td>59 lbs/ft²; 290kg/m² (240-10)</td>
<td>104 lbs/ft²; 508kg/m² (240-10)</td>
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<tr>
<td>Heat emission:</td>
<td>2307 BTU/hr.</td>
<td>1495 BTU/hr.</td>
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</tbody>
</table>

*Distributed load refers to the force that the unit exerts across its ‘footprint’ (width x depth), measured in pound-force per square foot (kilogram-force per square meter).

### Additional specifications (both models):

- **Clearance requirements:**
  - Front: 48 in.; 122cm
  - Rear: 4 in.; 11cm
  - Top: 24 in.; 61cm
  - Side: 4 in.; 11cm

- **Environmental:**
  - Operating temperature: 59–82°F; 15–28°C
  - Humidity (non-condensing): 10–90%
  - Operating elevation: 9842 ft; 3000m

- **Electrical:**
  - Line voltage: 100/110/220/240 vAC +/-10%
  - Line frequency: 50/60 Hz +/-5%
  - Wattage: 800 watts (240-typical); 1000 watts (528-typical)

- **Certifications:**
  - UL: 3101-1
  - CSA: 22.2 No. 1010.1
  - IEC: 61010-1:90 + A1:92 + A2:95
  - IEC: 61326-1, 2002

### Bottle capacity:

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<th>Configuration:</th>
<th># Drawers:</th>
<th>Max. annual bottle vol. 5-day blood culture</th>
<th>Max. annual bottle vol. 7-day blood culture</th>
<th>Max. annual bottle vol. Myco</th>
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