

Thermo Scientific Blood Culture Solutions

Thermo Scientific Signal System
Thermo Scientific VersaTREK System



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.

Thermo
SCIENTIFIC

Rapid, accurate organism detection

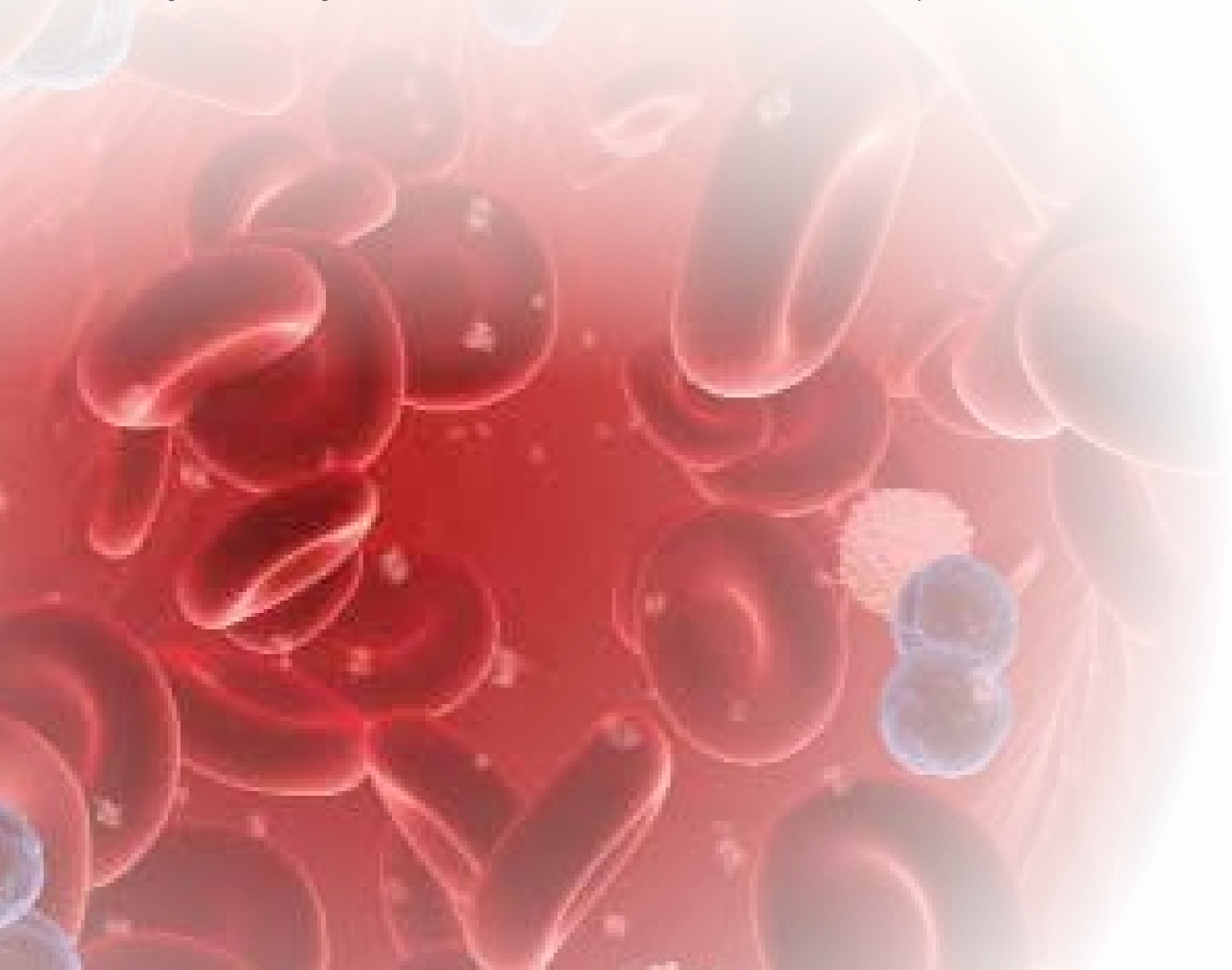
proven excellence in organism recovery

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.

¹Martin, Greg S., Mannino, David M., Eaton, Stephanie, and Moss, Marc. *The Epidemiology of Sepsis in the United States from 1979 through 2000*. The New England Journal of Medicine 2003; 348:1546-54. ©2003 Massachusetts Medical Society.



Reliable, easy-to-use manual solutions

Signal Blood Culture System

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

Versatile, flexible automated solutions

VersaTREK Automated Microbial Detection System

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 ultimate in versatility: four tests, one platform

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

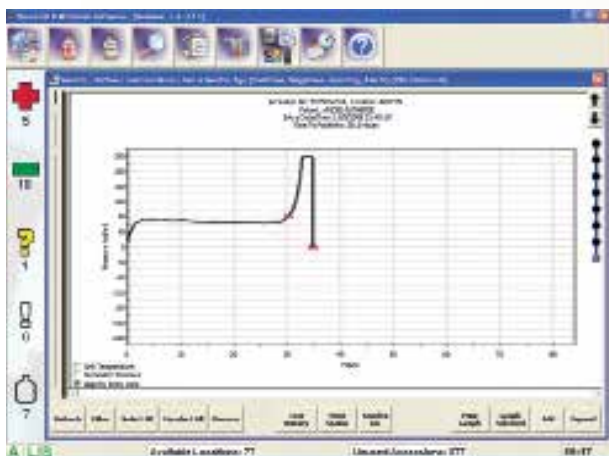
- **Blood culture**
- **Sterile body fluids**
- **Mycobacteria detection**
- ***Mycobacterium tuberculosis* susceptibility testing**

Need more testing capacity? Simply add drawers for additional testing locations.

Faster results, fewer limitations, better patient care

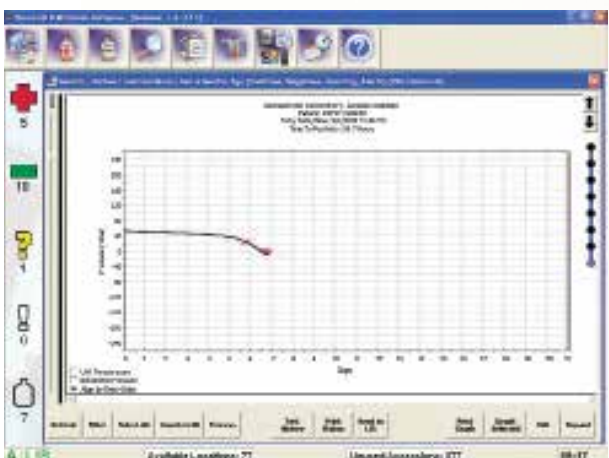
VersaTREK is the *only* system capable of detecting *any* gas produced or consumed by organisms. Because it is not limited to CO₂ production like other systems, VersaTREK is able to detect a wider range of both common and fastidious organisms. This unique detection technology means faster results with 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 beigellii

Proven performance

The VersaTREK System's comprehensive detection technology, combined with over 15 years of media excellence, provides superior fastidious organism recovery.

Reduce inventory *and* costs

Just two bottles covers *all* patient populations

Just two bottles are all you need to recover organisms from adults, pediatrics and patients on antibiotics, reducing media costs and simplifying inventory control. VersaTREK REDOX media have many distinct features, including:

- Only media FDA-cleared for draws as low as 0.1 mL without additional supplements; perfect for pediatric patients
- Largest dilution ratio in the industry (1:9), allowing dilution of serum host factors
- Only FDA-cleared true direct-draw bottle on the market; no need for costly blood-collection adapters

One system, one bottle for *all* Mycobacteria testing

VersaTREK Myco media utilize a unique growth matrix, via cellulose sponges, to provide better detection of all Mycobacteria species.

The VersaTREK System offers four FDA-cleared, primary antituberculosis drugs for *Mtb* susceptibility testing, including:

- Rifampin
- Ethambutol
- Streptomycin*
- Isoniazid
- PZA

*CE-marked- not for sale in the U.S.



The REDOX™ two-bottle media system, available in 40 and 80mL sizes, is suitable for all patient scenarios, including pediatric patients.



REDOX 40mL bottles are the *only* FDA-approved blood-culture bottles for true direct draws.



The VersaTREK System's detection technology automatically incubates and continuously monitors inoculated Myco culture bottles.

Simple workflow maximizes efficiency

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!*



VersaTREK software includes intuitive icons for simple navigation.

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.



Patient data and test results are at your fingertips with the VersaTREK software system and touch screen monitor.

Reliable, ongoing support

from a dedicated team of microbiologists

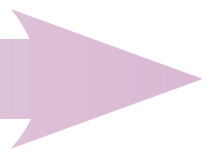
Thermo Fisher Scientific is dedicated to providing an efficient and organized conversion process, from accurate order placement and successful installation, through training and validation support. Our technical support teams have experienced microbiologists available via phone or email, to quickly and 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:

	528 Model:	240 Model:	240 Model w/ cart:
Height:	76 1/4 in.; 194cm	40 1/4 in.; 103cm	76 in.; 193cm
Width:	52 in.; 132cm	52 in.; 132cm	52 in.; 132cm
Depth:	30 3/4 in.; 78cm	30 3/4 in.; 78cm	30 3/4 in.; 78cm
Weight (without bottles):	1,212 lbs; 550kg	656 lbs; 298kg	1158 lbs; 525kg
Distributed load* w/ bottles:	132 lbs/ft ² ; 644kg/m ² (528-22)	70 lbs/ft ² ; 339kg/m ² (240-10)	115 lbs/ft ² ; 561kg/m ² (240-10)
Distributed load* without bottles:	109 lbs/ft ² ; 532kg/m ² (528-22)	59 lbs/ft ² ; 290kg/m ² (240-10)	104 lbs/ft ² ; 508kg/m ² (240-10)
Heat emission:	2307 BTU/hr.	1495 BTU/hr.	1495 BTU/hr.

*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:	Environmental:	Electrical:	Certifications:
Front: 48 in.; 122cm	Operating temperature: 59–82°F; 15–28°C	Line voltage: 100/110/220/240 vAC +/-10%	UL: 3101-1
Rear: 4 in.; 11cm	Humidity (non-condensing): 10–90%	Line frequency: 50/60 Hz +/-5%	CSA: 22.2 No. 1010.1
Top: 24 in.; 61cm	Operating elevation: 9842 ft; 3000m	Wattage: 800 watts (240-typical);	IEC: 61010-1:90 +
Side: 4 in.; 11cm	(maximum)	1000 watts (528-typical)	A1:92 + A2:95
			IEC: 61326-1, 2002

Bottle capacity:

	Configuration:	# Drawers:	Max. annual bottle vol. 5-day blood culture	Max. annual bottle vol. 7-day blood culture	Max. annual bottle vol. Mycro
240 Model:	96	4	7000	5000	850
	144	6	10,500	7500	1250
	192	8	14,000	10,000	1700
	240	10	17,500	12,500	2100
528 Model:	336	14	24,500	17,500	3000
	384	16	28,000	20,000	3500
	432	18	31,500	22,500	3800
	480	20	35,000	25,000	4300
	528	22	38,500	27,500	4700

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