

Blood Culture Test - A Global Market Overview

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Abstracts

The global blood culture test market is gaining momentum as hospitals face a rising burden of bloodstream infections, sepsis, and healthcare-associated infections. With aging populations, more immunocompromised patients, and a growing volume of surgical procedures, clinicians are under increasing pressure to detect pathogens quickly and accurately. Blood culture testing remains the cornerstone for identifying bacteria, fungi, and mycobacteria in the bloodstream, helping guide targeted antimicrobial therapy and reduce mortality. Continued concerns around antimicrobial resistance have further increased the need for dependable culture results and susceptibility testing. At the same time, advances such as automated culture systems, continuous monitoring, and newer molecular and proteomic tools including PCR and MALDI-TOF MS are improving turnaround times and diagnostic precision, making these tests even more vital in critical care settings.

Valued at about US\$7 billion in 2025 and projected to reach US\$14 billion by 2032 at a CAGR of 10.5 percent, the market is benefiting from both technological innovation and stronger healthcare infrastructure worldwide. Emerging regions are expanding diagnostic capacity, while global investments in infection control programs and sepsis protocols are supporting the wider use of blood cultures. The shift toward point-of-care solutions and the early integration of AI-supported interpretation are helping clinicians make faster decisions at the bedside. In addition, ongoing R&D efforts, new product approvals, and strategic partnerships across the industry are accelerating the availability of next-generation consumables and instruments. These developments together are shaping a market that continues to grow and evolve in response to the rising demand for accurate and timely detection of bloodstream infections.

Blood Culture Test Regional Market Analysis

North America dominates the global blood culture test market with an estimated 40%

share in 2025. This dominance is driven by advanced healthcare infrastructure, high healthcare expenditure, and significant investment in research and development. The region gains advantages from key players such as Becton Dickinson, bioMerieux, and Thermo Fisher Scientific, alongside robust regulatory support and favorable reimbursement policies that enhance regional leadership. The high prevalence of bloodstream infections and sepsis, combined with increasing awareness of early disease detection and stringent infection control protocols, further supports market growth. Government-funded programs, such as those initiated by BARDA, encourage innovation and the rapid advancement of diagnostic technologies. In contrast, the Asia-Pacific region is expected to grow fastest, with a projected CAGR of 11.5% from 2025 to 2032, fueled by rising infectious disease cases, healthcare modernization, and increasing diagnostic awareness. Countries such as China, India, Japan, and South Korea are enhancing their laboratory infrastructure and automation capabilities, supported by government initiatives and global partnerships.

Blood Culture Test Market Analysis by Product

The consumables segment is the largest in the global blood culture test market with over 57% share in 2025. This leadership is driven by their essential, single-use role in every diagnostic procedure. Items such as culture media, bottles, vials, and reagents generate steady, recurring demand across laboratories. Clinical mandates such as the Surviving Sepsis Campaign's Hour 1 Bundle further reinforce their necessity. Ongoing innovations in media formulation, packaging, and automation compatibility enhance accuracy and efficiency, ensuring consumables remain the core revenue driver and most consistently used component in blood culture testing. Meanwhile, the instruments segment is projected to record the fastest growth rate at a CAGR of 11.3% from 2025 to 2032, driven by rising automation, demand for faster turnaround times, and integration of real-time monitoring technologies. High-throughput systems such as BacT/ALERT Virtuo exemplify this shift toward efficiency and precision, making instruments the fastest-growing product category after consumables.

Blood Culture Test Market Analysis by Method

The Conventional/Manual Methods segment dominates the global blood culture test market, accounting for over 59% market share in 2025. This dominance results from its reliability, affordability, and widespread application in hospitals, pathology labs, and clinics, particularly in cost-sensitive regions such as the Asia-Pacific and Latin America. Conventional techniques for diagnosing bloodstream infections involve incubating blood samples in culture media to detect microbial growth. These methods remain the most

accessible option, especially where high equipment costs limit automation. Their continued use for organism identification and antimicrobial susceptibility testing (AST) reinforces their central role in public hospitals and reference laboratories. However, the Automated Methods segment is anticipated to be the fastest, registering a CAGR of 11.2% from 2025 to 2032, driven by increasing demand for rapid and accurate diagnostics. Automated systems streamline incubation, detection, and reporting, significantly reducing turnaround time and contamination risk. Supported by ongoing R&D investments and integration with molecular tools like MALDI-TOF MS, automation is rapidly transforming diagnostic workflows and emerging as the preferred approach in high-volume laboratories.

Blood Culture Test Market Analysis by Technology

Culture-based technology leads the global blood culture test market with an estimated 64% share in 2025, maintaining its position as the established gold standard for detecting and identifying viable bacteria and fungi in bloodstream infections. Its dominance is due to its proven reliability, cost-effectiveness, and capacity to provide live isolates for antimicrobial susceptibility testing (AST), which is essential for guiding targeted therapy in the face of rising antimicrobial resistance. Widely adopted in hospitals and clinical laboratories, culture-based systems remain indispensable due to their diagnostic accuracy and regulatory acceptance. Continuous automation has enhanced efficiency, reduced turnaround times, and improved detection rates. Conversely, molecular technology represents the fastest-growing segment, projected to record a CAGR of 11.6% from 2025 to 2032, driven by innovations such as PCR, NAATs, and multiplex assays that enable rapid pathogen and resistance gene detection within hours. Growing clinical demand for quicker sepsis diagnosis, along with regulatory support and continued R&D investment, is driving faster adoption of molecular diagnostics.

Blood Culture Test Market Analysis by Application

Bacteremia is the largest application segment in the global blood culture test market, with over 70% of share in 2025, driven by the high prevalence of bloodstream infections and sepsis. Clinical mandates such as the Surviving Sepsis Campaign's Hour 1 Bundle reinforce its essential role in early diagnosis and treatment. Hospitals and laboratories rely on blood cultures to identify pathogens, guide targeted therapy, and reduce mortality. Rising antimicrobial resistance and a growing elderly population further boost demand, while advancements in automated and molecular diagnostics enhance detection speed and accuracy, sustaining bacteremia's leading position in the market. In

contrast, fungemia represents the fastest-growing application, projected to record a CAGR of over 11% from 2025 to 2032, driven by increasing cases of fungal bloodstream infections, particularly among critically ill and post-COVID patients. Growing awareness, improved fungal media formulations, and the adoption of molecular tools for precise pathogen identification are fueling this segment's rapid expansion.

Blood Culture Test Market Analysis by End User

Hospital laboratories dominate the global blood culture test market, accounting for a 55% share in 2025, driven by rising hospital admissions and the growing incidence of hospital-acquired infections (HAIs). Hospitals serve as the primary testing centers for critical conditions such as sepsis and bloodstream infections, where rapid diagnostics are essential for timely treatment and regulatory compliance. Their central role in acute care and accessibility in developing regions further reinforces their dominance. In contrast, reference laboratories represent the fastest-growing end-user segment, projected to expand at a CAGR of 11.8% from 2025 to 2032, due to the increasing outsourcing of specialized and high-complexity testing. These facilities offer high sensitivity, scalability, and cost efficiency, supporting faster and more accurate detection across large testing volumes.

Blood Culture Test Market Report Scope

This global report on Blood Culture Test analyzes the market based on product, method, technology, application, and end user for the period 2022-2032 with projections from 2025 to 2032 in terms of value in US\$. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period: 2022-2024

Base Year: 2025

Forecast Period: 2025-2032

Units: Value market in US\$

Companies Mentioned: 10+

Blood Culture Test Market by Geographic Region

North America (The United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Italy, Spain, and Rest of Europe)

Asia-Pacific (Japan, China, India, South Korea, and Rest of Asia-Pacific)

South America (Brazil, Argentina, and Rest of South America)

Rest of World

Blood Culture Test Market by Product

Consumables

Instruments

Software & Services

Blood Culture Test Market by Method

Conventional/Manual Methods

Automated Methods

Black

Blood Culture Test Market by Technology

Culture-based Technology

Molecular Technology

Proteomics-based Technology

Blood Culture Test Market by Application

Bacteremia

Fungemia

Mycobacterial Detection

Blood Culture Test Market by End User

Hospital Laboratories

Reference Laboratories

Academic and Research Institutes

Other End Users (Including Pathology Laboratories, Public Health Organizations, and CROs)

Contents

PART A: GLOBAL MARKET PERSPECTIVE

1. INTRODUCTION

- Product Outline
- Blood Culture Test Defined
- Blood Culture Test Products
 - Consumables
 - Instruments
 - Software & Services
- Blood Culture Test Methods
 - Conventional/Manual Methods
 - Automated Methods
- Blood Culture Test Technologies
 - Culture-based Technology
 - Molecular Technology
 - Proteomics-based Technology
- Blood Culture Test Applications
 - Bacteremia
 - Fungemia
 - Mycobacterial Detection
- Blood Culture Test End Users
 - Hospital Laboratories
 - Reference Laboratories
 - Academic and Research Institutes
 - Other End Users (Including Pathology Laboratories, Public Health Organizations, and CROs)

2. KEY MARKET TRENDS

3. KEY MARKET PLAYERS

- Abbott Laboratories
- Accelerate Diagnostics, Inc.
- Becton, Dickinson and Company (BD)
- bioMerieux SA
- Bruker Corporation

Danaher Corporation (Beckman Coulter and Cepheid)
DiaSorin S.p.A. (Luminex Corporation)
F. Hoffmann-La Roche Ltd
Siemens Healthineers AG
Terumo Corporation
Thermo Fisher Scientific Inc.

4. KEY BUSINESS & PRODUCT TRENDS

5. GLOBAL MARKET OVERVIEW

Global Blood Culture Test Market Overview by Product
Blood Culture Test Product Market Overview by Global Region
Consumables
Instruments
Software & Services
Global Blood Culture Test Market Overview by Method
Blood Culture Test Method Market Overview by Global Region
Conventional/Manual Methods
Automated Methods
Global Blood Culture Test Market Overview by Technology
Blood Culture Test Technology Market Overview by Global Region
Culture-based Technology
Molecular Technology
Proteomics-based Technology
Global Blood Culture Test Market Overview by Application
Blood Culture Test Application Market Overview by Global Region
Bacteremia
Fungemia
Mycobacterial Detection
Global Blood Culture Test Market Overview by End User
Blood Culture Test End User Market Overview by Global Region
Hospital Laboratories
Reference Laboratories
Academic and Research Institutes
Other End Users

PART B: REGIONAL MARKET PERSPECTIVE

Global Blood Culture Test Market Overview by Geographic Region

REGIONAL MARKET OVERVIEW

6. NORTH AMERICA

North American Blood Culture Test Market Overview by Geographic Region

North American Blood Culture Test Market Overview by Product

North American Blood Culture Test Market Overview by Method

North American Blood Culture Test Market Overview by Technology

North American Blood Culture Test Market Overview by Application

North American Blood Culture Test Market Overview by End User

Country-Wise Analysis of the North American Blood Culture Test Market

The United States

United States Blood Culture Test Market Overview by Product

United States Blood Culture Test Market Overview by Method

United States Blood Culture Test Market Overview by Technology

United States Blood Culture Test Market Overview by Application

United States Blood Culture Test Market Overview by End User

Canada

Canadian Blood Culture Test Market Overview by Product

Canadian Blood Culture Test Market Overview by Method

Canadian Blood Culture Test Market Overview by Technology

Canadian Blood Culture Test Market Overview by Application

Canadian Blood Culture Test Market Overview by End User

Mexico

Mexican Blood Culture Test Market Overview by Product

Mexican Blood Culture Test Market Overview by Method

Mexican Blood Culture Test Market Overview by Technology

Mexican Blood Culture Test Market Overview by Application

Mexican Blood Culture Test Market Overview by End User

7. EUROPE

European Blood Culture Test Market Overview by Geographic Region

European Blood Culture Test Market Overview by Product

European Blood Culture Test Market Overview by Method

European Blood Culture Test Market Overview by Technology

European Blood Culture Test Market Overview by Application

European Blood Culture Test Market Overview by End User Country-Wise Analysis of European Blood Culture Test Market

Germany

- German Blood Culture Test Market Overview by Product
- German Blood Culture Test Market Overview by Method
- German Blood Culture Test Market Overview by Technology
- German Blood Culture Test Market Overview by Application
- German Blood Culture Test Market Overview by End User

France

- French Blood Culture Test Market Overview by Product
- French Blood Culture Test Market Overview by Method
- French Blood Culture Test Market Overview by Technology
- French Blood Culture Test Market Overview by Application
- French Blood Culture Test Market Overview by End User

The United Kingdom

- United Kingdom Blood Culture Test Market Overview by Product
- United Kingdom Blood Culture Test Market Overview by Method
- United Kingdom Blood Culture Test Market Overview by Technology
- United Kingdom Blood Culture Test Market Overview by Application
- United Kingdom Blood Culture Test Market Overview by End User

Italy

- Italian Blood Culture Test Market Overview by Product
- Italian Blood Culture Test Market Overview by Method
- Italian Blood Culture Test Market Overview by Technology
- Italian Blood Culture Test Market Overview by Application
- Italian Blood Culture Test Market Overview by End User

Spain

- Spanish Blood Culture Test Market Overview by Product
- Spanish Blood Culture Test Market Overview by Method
- Spanish Blood Culture Test Market Overview by Technology
- Spanish Blood Culture Test Market Overview by Application
- Spanish Blood Culture Test Market Overview by End User

Rest of Europe

- Rest of Europe Blood Culture Test Market Overview by Product
- Rest of Europe Blood Culture Test Market Overview by Method
- Rest of Europe Blood Culture Test Market Overview by Technology
- Rest of Europe Blood Culture Test Market Overview by Application
- Rest of Europe Blood Culture Test Market Overview by End User

8. ASIA-PACIFIC

Asia-Pacific Blood Culture Test Market Overview by Geographic Region

Asia-Pacific Blood Culture Test Market Overview by Product

Asia-Pacific Blood Culture Test Market Overview by Method

Asia-Pacific Blood Culture Test Market Overview by Technology

Asia-Pacific Blood Culture Test Market Overview by Application

Asia-Pacific Blood Culture Test Market Overview by End User

Country-Wise Analysis of the Asia-Pacific Blood Culture Test Market

Japan

Japanese Blood Culture Test Market Overview by Product

Japanese Blood Culture Test Market Overview by Method

Japanese Blood Culture Test Market Overview by Technology

Japanese Blood Culture Test Market Overview by Application

Japanese Blood Culture Test Market Overview by End User

China

Chinese Blood Culture Test Market Overview by Product

Chinese Blood Culture Test Market Overview by Method

Chinese Blood Culture Test Market Overview by Technology

Chinese Blood Culture Test Market Overview by Application

Chinese Blood Culture Test Market Overview by End User

India

Indian Blood Culture Test Market Overview by Product

Indian Blood Culture Test Market Overview by Method

Indian Blood Culture Test Market Overview by Technology

Indian Blood Culture Test Market Overview by Application

Indian Blood Culture Test Market Overview by End User

South Korea

South Korean Blood Culture Test Market Overview by Product

South Korean Blood Culture Test Market Overview by Method

South Korean Blood Culture Test Market Overview by Technology

South Korean Blood Culture Test Market Overview by Application

South Korean Blood Culture Test Market Overview by End User

Rest of Asia-Pacific

Rest of Asia-Pacific Blood Culture Test Market Overview by Product

Rest of Asia-Pacific Blood Culture Test Market Overview by Method

Rest of Asia-Pacific Blood Culture Test Market Overview by Technology

Rest of Asia-Pacific Blood Culture Test Market Overview by Application

Rest of Asia-Pacific Blood Culture Test Market Overview by End User

9. SOUTH AMERICA

South American Blood Culture Test Market Overview by Geographic Region

South American Blood Culture Test Market Overview by Product

South American Blood Culture Test Market Overview by Method

South American Blood Culture Test Market Overview by Technology

South American Blood Culture Test Market Overview by Application

South American Blood Culture Test Market Overview by End User

Country-Wise Analysis of the South American Blood Culture Test Market

Brazil

Brazilian Blood Culture Test Market Overview by Product

Brazilian Blood Culture Test Market Overview by Method

Brazilian Blood Culture Test Market Overview by Technology

Brazilian Blood Culture Test Market Overview by Application

Brazilian Blood Culture Test Market Overview by End User

Argentina

Argentine Blood Culture Test Market Overview by Product

Argentine Blood Culture Test Market Overview by Method

Argentine Blood Culture Test Market Overview by Technology

Argentine Blood Culture Test Market Overview by Application

Argentine Blood Culture Test Market Overview by End User

Rest of South America

Rest of South American Blood Culture Test Market Overview by Product

Rest of South American Blood Culture Test Market Overview by Method

Rest of South American Blood Culture Test Market Overview by Technology

Rest of South American Blood Culture Test Market Overview by Application

Rest of South American Blood Culture Test Market Overview by End User

10. REST OF WORLD

Rest of World Blood Culture Test Market Overview by Product

Rest of World Blood Culture Test Market Overview by Method

Rest of World Blood Culture Test Market Overview by Technology

Rest of World Blood Culture Test Market Overview by Application

Rest of World Blood Culture Test Market Overview by End User

PART C: GUIDE TO THE INDUSTRY

PART D: ANNEXURE

1. RESEARCH METHODOLOGY

2. FEEDBACK

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