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Global Hospital Acquired Disease Testing Market Size study, by Test (Molecular, Conventional), by Infection (UTI, Pneumonia), by Product, by Type, and Regional Forecasts 2022-2032

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Abstracts

The Global Hospital Acquired Disease Testing Market is valued approximately at USD 4.23 billion in 2023 and is anticipated to expand steadily with a CAGR of more than 1.49% over the forecast period 2024–2032. In a world where medical advances are revolutionizing healthcare delivery, hospital acquired disease testing remains a critical linchpin in ensuring patient safety and effective clinical outcomes. Healthcare-associated infections (HAIs), such as urinary tract infections (UTIs) and pneumonia, not only lengthen hospital stays but also substantially increase the burden on global healthcare expenditures. Testing technologies, particularly molecular diagnostics, have emerged as transformative tools that enable rapid and accurate detection of these infections, thereby mitigating their spread and ensuring timely intervention. Hospitals are investing in streamlined and automated diagnostics, driven by the urgency to improve infection control programs and reduce mortality rates linked to nosocomial infections.

As the healthcare ecosystem pivots toward preventative and value-based care models, the emphasis on early diagnosis and risk stratification is amplifying the need for robust hospital acquired disease testing mechanisms. Conventional diagnostics, though still prevalent, are gradually being supplanted by next-generation molecular testing systems that offer high sensitivity, reduced turnaround time, and multiplex capabilities. Innovations in PCR technology and isothermal amplification have further democratized access to point-of-care testing across diverse healthcare settings. Moreover, growing public awareness, combined with global regulatory mandates on infection reporting, is pushing hospital management systems to adopt more rigorous surveillance and testing

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protocols.

That said, the market is also contending with certain structural headwinds. The cost-prohibitive nature of advanced diagnostic systems, particularly in resource-constrained regions, presents a formidable challenge to widespread adoption. Additionally, operational inefficiencies, such as shortage of skilled personnel and fragmented diagnostic workflows, often undermine the efficacy of hospital-based infection control strategies. Nevertheless, collaborations between diagnostics manufacturers and hospital networks, coupled with the emergence of integrated platforms combining AI and diagnostics, are expected to accelerate testing penetration and foster real-time clinical decision-making.

In response to these challenges, many diagnostic manufacturers are recalibrating their go-to-market strategies to focus on scalable, modular, and interoperable systems. These platforms are tailored to meet the evolving needs of tertiary hospitals as well as secondary and ambulatory care centers. Moreover, there is a growing appetite for decentralized diagnostic models that enable clinicians to obtain actionable insights closer to the point of patient care. Hospital-acquired infection testing is also becoming an integral part of antimicrobial stewardship programs, further underlining its role in reducing antimicrobial resistance (AMR)—a looming global health threat.

Regionally, North America leads the market, underpinned by strong healthcare infrastructure, favorable reimbursement structures, and stringent regulatory frameworks that mandate infection testing and reporting. Europe follows closely, driven by cohesive public health initiatives, widespread adoption of molecular diagnostics, and increasing investments in hospital hygiene and infection control systems. Meanwhile, Asia Pacific is poised to exhibit the highest growth trajectory over the forecast period, propelled by expanding healthcare coverage, increasing hospitalization rates, and government-led infection control initiatives. Latin America and the Middle East & Africa are also gaining traction, supported by rising healthcare awareness and international partnerships aiming to improve diagnostic capabilities in underserved regions.

Major market player included in this report are:

Abbott Laboratories

Thermo Fisher Scientific Inc.

Becton, Dickinson and Company

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bioM?rieux SA

F. Hoffmann-La Roche Ltd.

Siemens Healthineers AG

Danaher Corporation

Qiagen N.V.

Hologic, Inc.

Bio-Rad Laboratories, Inc.

Cardinal Health, Inc.

Cepheid (A Danaher Company)

GenMark Diagnostics, Inc.

QuidelOrtho Corporation

Meridian Bioscience, Inc.

The detailed segments and sub-segment of the market are explained below:

By Test

Molecular

Conventional

By Infection

Urinary Tract Infection (UTI)

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Pneumonia

By Product

Instruments

Reagents & Kits

Software & Services

By Type

Automated

Manual

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

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- Rest of Europe

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico
- Rest of Latin America

Middle East & Africa

- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

Years considered for the study are as follows:

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Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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