

# **Global Core Clinical Molecular Diagnostics Market Size study, by Product Type (Instruments, Reagents, Software & Services), by Technique (PCR, Nucleic Acid Sequencing, Fluorescence In Situ Hybridization (FISH), Others), by Application (Infectious Diseases, Genetic Disorders, Cancer Screening, Others), and Regional Forecasts 2022-2032**

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## **Abstracts**

The Global Core Clinical Molecular Diagnostics Market is valued at approximately USD 5.26 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 9.5% over the forecast period 2024-2032. Core clinical molecular diagnostics involve the use of laboratory techniques to analyze genetic material (DNA, RNA) and proteins at the molecular level. These techniques include Polymerase Chain Reaction (PCR), DNA sequencing, and Next-Generation Sequencing (NGS), essential for disease diagnosis, prognosis, and treatment selection in personalized medicine. By identifying genetic variations, infectious agents, and disease biomarkers, these diagnostics enable tailored patient care and enhance clinical outcomes.

The market's expansion is primarily driven by the increasing geriatric population, which leads to a higher prevalence of infectious and oncological disorders. The World Health Organization projects that the global elderly population will reach 1.4 billion by 2030, emphasizing the need for advanced diagnostic technologies capable of detecting diseases at the molecular level. This demographic shift underscores the escalating prevalence of diseases and the subsequent demand for molecular diagnostic tests. Moreover, rising healthcare expenditure globally supports the growth of the core clinical molecular diagnostics market. As healthcare spending increases, there is greater investment in advanced diagnostic technologies. Healthcare providers prioritize

accurate and timely diagnosis to optimize patient care and outcomes, especially in regions with aging populations and higher disease burdens. Additionally, technological advancements, such as improved sequencing techniques, enhanced sensitivity of detection methods, and development of multiplex assays, further drive the market's growth by increasing the speed and accuracy of diagnoses.

However, the high initial investment costs and limitations in accessibility and infrastructure in certain regions may hinder market growth. While advanced molecular diagnostic technologies offer significant benefits, their cost may be prohibitive for some healthcare providers. Additionally, inadequate infrastructure and limited access to these technologies in certain regions pose barriers to adoption. Addressing these challenges requires efforts to reduce costs, improve infrastructure, and enhance accessibility to ensure equitable access to core molecular diagnostic technologies.

Key regions considered in the Global Core Clinical Molecular Diagnostics Market study include North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America is the dominant region in the Global Core Clinical Molecular Diagnostics Market. This dominance is primarily due to the region's advanced healthcare infrastructure, significant investment in research and development, and the presence of major market players. The United States has a high adoption rate of advanced diagnostic technologies and a well-established regulatory framework that supports innovation in molecular diagnostics. Additionally, the growing prevalence of chronic diseases, such as cancer and infectious diseases, has spurred the demand for accurate and early diagnostic solutions. The robust funding for genomic research and the widespread implementation of personalized medicine further contribute to North America's leading position in the core clinical molecular diagnostics market. The Asia-Pacific region is expected to exhibit the fastest growth during the forecast period, driven by robust economic development, a rapidly expanding population, and increasing healthcare awareness. The region's improving healthcare infrastructure and rising demand for core clinical molecular diagnostics further contribute to market growth.

Major market players included in this report are:

BioMerieux SA

Novartis AG

Becton Dickinson & Company

Siemens Healthineers AG

Abbott Laboratories

Hologic, Inc.

Cepheid AB

Qiagen NV.

Agilent Technologies, Inc.

F. Hoffmann La Roche

PerkinElmer, Inc.

Luminex Corporation

Bio-Rad Laboratories, Inc.

Illumina, Inc.

Roche Diagnostics

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

By Product Type:

Instruments

Reagents

Software & Services

By Technique:

PCR

Nucleic Acid Sequencing

Fluorescence In Situ Hybridization (FISH)

Others

By Application:

Infectious Diseases

Genetic Disorders

Cancer Screening

Others

By Region:

North America

U.S.

Canada

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

China

Japan

India

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:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

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

*Global Core Clinical Molecular Diagnostics Market Size study, by Product Type (Instruments, Reagents, Software...*

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.

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