

Global Infectious Disease Molecular Diagnostics Market Size Study, By Product (Instruments, Reagents), By Technology (Mass Spectrometry, PCR, In Situ Hybridization), By Application, By End-Use, and Regional Forecasts 2022-2032

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Abstracts

The Global Infectious Disease Molecular Diagnostics Market is valued at approximately USD 52 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 3.9% over the forecast period 2024-2032. The increasing prevalence of infectious diseases worldwide, coupled with advancements in molecular diagnostic technologies, is propelling market growth. The growing demand for rapid and accurate disease detection methods, particularly in the wake of emerging infectious threats, has fueled investments in next-generation sequencing (NGS), polymerase chain reaction (PCR), and CRISPR-based diagnostic platforms. Additionally, technological innovations have significantly improved the precision, speed, and accessibility of diagnostic tests, enabling healthcare providers to make data-driven treatment decisions.

The rising incidence of diseases such as tuberculosis, hepatitis, sexually transmitted infections (STIs), respiratory illnesses, and antimicrobial-resistant infections has accelerated the adoption of molecular diagnostics. Government and private sector funding for infectious disease research, clinical trials, and innovative diagnostic tools are further amplifying market expansion. For instance, in January 2025, Rhode Island Hospital secured a USD 1 million grant from CARB-X to develop a direct-from-blood PCR test for pneumonia-causing bacteria. Similarly, Kryptos Biotechnologies received USD 1.2 million in funding to advance its rapid multiplex molecular diagnostic technology for STIs. These initiatives underscore the increasing focus on precision diagnostics to curb infectious disease outbreaks and improve patient outcomes.



Geographically, North America dominated the infectious disease molecular diagnostics market, accounting for a 40.95% revenue share in 2024. The region's strong foothold in diagnostic technologies, robust healthcare infrastructure, and high demand for rapid testing solutions contribute to its market leadership. The Asia-Pacific region is anticipated to witness the fastest CAGR over the forecast period, driven by rising disease prevalence, growing investments in diagnostic infrastructure, and increasing awareness about early disease detection. Countries such as China, India, and Japan are experiencing a surge in demand for molecular diagnostic tests due to their large patient populations, government funding for healthcare innovation, and advancements in home-based and point-of-care (PoC) testing solutions.

The growing adoption of artificial intelligence (AI) and digital health platforms in molecular diagnostics is expected to reshape the market landscape. Al-driven diagnostic tools enhance the accuracy and efficiency of pathogen detection, reducing false positives and improving diagnostic reliability. Additionally, cloud-based diagnostic platforms are streamlining real-time disease surveillance and outbreak management. With continued innovations in diagnostic technologies and increasing collaboration between public and private sector entities, the infectious disease molecular diagnostics market is poised for sustained growth throughout the forecast period.

Major Market Players Included in This Report Are:

Abbott

Danaher Corporation

Bio-Rad Laboratories, Inc.

bioM?rieux SA

F. Hoffmann-La Roche Ltd

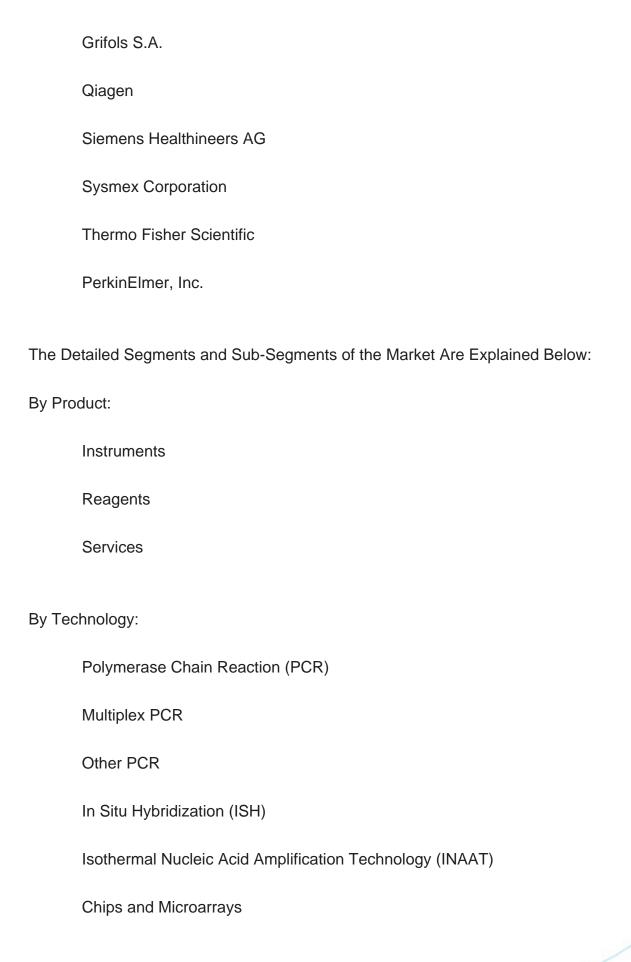
Agilent Technologies, Inc.

Becton, Dickinson and Company

Hologic, Inc. (Gen-Probe)

Illumina, Inc.





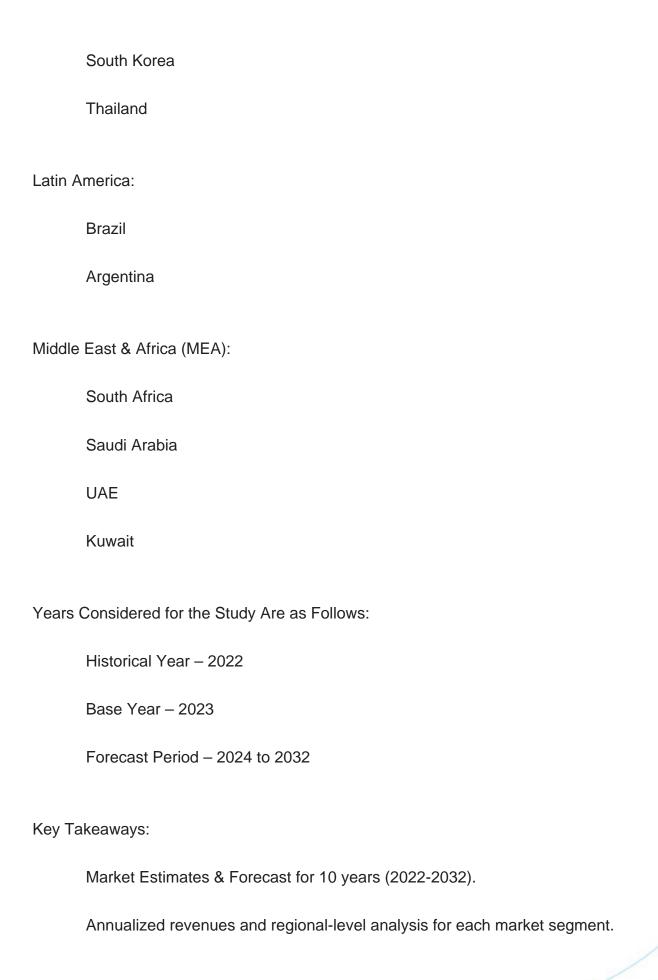


	Mass Spectrometry	
	Transcription Mediated Amplification (TMA)	
	Others	
By Application:		
	Respiratory Diseases	
	Tuberculosis	
	Meningitis	
	Gastrointestinal Tract Infections	
	Human Papillomavirus (HPV)	
	Sexually Transmitted Infections (STIs)	
	Sepsis	
	Drug-Resistant Diseases	
	Others	
By End-Use:		
	Hospitals	
	Clinics	
	Diagnostic Laboratories	
	Research Institutes	



By Reg	gion:
North A	America:
	U.S.
	Canada
	Mexico
Europe	e:
	UK
	Germany
	France
	Italy
	Spain
	Denmark
	Sweden
	Norway
Asia-P	acific:
	China
	Japan
	India
	Australia







Detailed analysis of the geographical landscape, including country-level insights.

Competitive landscape featuring company profiles and strategic market positioning.

Analysis of key business strategies, including mergers, acquisitions, and technological innovations.

Demand-side and supply-side market analysis to highlight growth opportunities.



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