

qPCR Instruments Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

<https://marketpublishers.com/r/Q0880607BB1BEN.html>

Date: October 2024

Pages: 135

Price: US\$ 4,850.00 (Single User License)

ID: Q0880607BB1BEN

Abstracts

The Global qPCR Instruments Market was valued at USD 1.6 billion in 2023 and is projected to grow at a CAGR of 8.4% from 2024 to 2032. Key drivers for this growth include the rising prevalence of diseases and an increasing focus on personalized medicine. The growing incidence of various diseases worldwide has significantly boosted the demand for real-time quantification tools like qPCR. These tools are crucial for diagnosing and monitoring infectious diseases, cancer, and genetic disorders due to their ability to provide rapid and accurate results. Factors such as urbanization, aging populations, and lifestyle changes have contributed to the rise in non-communicable diseases, further driving the need for qPCR technology, especially in areas with high rates of infections and chronic conditions.

The rising focus on personalized medicine is also a key factor propelling the qPCR instruments market. Personalized medicine relies on precise molecular diagnostics, and qPCR enables detailed genetic profiling and real-time monitoring. This capability is essential for developing individualized treatments, identifying genetic mutations, and tailoring therapies to meet the specific needs of patients. As the demand for personalized therapies continues to grow, qPCR's role in areas like drug development and targeted treatments is becoming more prominent, supporting market expansion.

In terms of product types, the qPCR systems segment led the market in 2023, generating USD 644.2 million. These systems are the backbone of real-time PCR testing, providing critical platforms for quantitative analysis in diagnostics, research, and drug development. qPCR systems are the most capital-intensive segment of the market, given the substantial investment required for their purchase and installation in labs, hospitals, and clinics. However, these machines are extensively utilized for various

applications, making them a key contributor to overall revenue.

Based on application, the market is segmented into gene expression, genotyping, pathogen detection, diagnostics, and others. In 2023, the gene expression segment held the largest share, at 26.6%. Gene expression analysis plays a key role in molecular biology, helping researchers understand gene regulation and expression under various conditions, particularly in cancer research, drug development, and disease mechanism studies. This makes qPCR instruments vital for such applications, driving consistent demand.

Regionally, North America accounted for USD 621 million in 2023 and is expected to grow at a CAGR of 8.1% through 2032. The rising incidence of infectious diseases like HIV, influenza, and COVID-19 has significantly increased the demand for advanced diagnostic tools in the region. qPCR instruments, known for their accuracy and speed, are instrumental in detecting pathogens quickly, enabling healthcare providers to manage disease outbreaks effectively.

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