

Global Polymerase Chain Reaction (PCR) Devices Market Size Study, By Technology (Digital PCR, Real-time PCR), By Product Type (Instrument, Reagent, Consumables, Others), By Application (Oncology, Blood Testing, Pathogen Detection, Research, Forensic, Others), By End-User (Hospital, Diagnostic Center, Pharmaceutical and Biotechnology Companies, Clinical Research Organizations, Academia, Laboratories), and Regional Forecasts 2022–2032

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Abstracts

The Global Polymerase Chain Reaction (PCR) Devices Market was valued at approximately USD 13.65 billion in 2023 and is projected to grow at a modest CAGR of 7.0% over the forecast period of 2024–2032. PCR devices, commonly referred to as thermal cyclers, play a critical role in amplifying DNA sequences, supporting their broad application across diverse fields such as clinical diagnostics, oncology, and microbiological research. This growth is further driven by the rising adoption of personalized medicine and precision diagnostics.

Increased utilization in clinical diagnostics and advancements in PCR technologies are fueling market expansion. PCR devices are instrumental in detecting genetic disorders and infectious diseases, ensuring precise diagnosis and treatment. Moreover, the growing reliance on biomarkers for disease diagnosis and the increasing demand for point-of-care diagnostic devices are shaping the market trajectory. Key innovations in real-time and digital PCR technologies have expanded their applications, driving

adoption in forensics, pathogen detection, and oncology.

North America currently dominates the market, attributed to favorable government initiatives and established healthcare infrastructure. Meanwhile, the Asia-Pacific region is poised for substantial growth during the forecast period, driven by heightened awareness of early diagnostics and increasing investments in healthcare technologies. Emerging markets in China, India, and Southeast Asia present lucrative opportunities due to their growing patient pool and rising prevalence of chronic diseases.

Major market players included in this report are:

Abbott

Thermo Fisher Scientific

BD (Becton, Dickinson and Company)

bioMérieux

Danaher

QIAGEN

Bio-Rad Laboratories, Inc.

Siemens Healthineers

Merck KGaA

Fluidigm Corporation

Agilent Technologies, Inc.

Cytiva

Stryker Corporation

Smith+Nephew

Bruker Corporation

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

By Technology

Digital PCR

Real-time PCR

By Product Type

Instrument

Reagent

Consumables

Others

By Application

Oncology

Blood Testing

Pathogen Detection

Research

Forensic

Others

By End User

Hospital

Diagnostic Center

Pharmaceutical and Biotechnology Companies

Clinical Research Organizations

Academia

Laboratories

By Region:

North America

U.S.

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Spain

Turkey

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Singapore

Australia

Thailand

Indonesia

Rest of Asia Pacific

Middle East & Africa

Saudi Arabia

UAE

South Africa

Rest of MEA

Latin America

Brazil

Argentina

Rest of Latin America

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

Annualized revenues and regional-level analysis for each market segment

Detailed analysis of geographical landscape with country-level insights

Competitive landscape with information on key players and strategies

Analysis of key business strategies and recommendations for market entry

Demand-side and supply-side dynamics analysis of the market

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