

# Global Polymerase Chain Reaction Market - Forecasts from 2019 to 2024

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## Abstracts

The global polymerase chain reaction market is projected to expand at a CAGR of 7.71% over the forecast period. Polymerase chain reaction, or PCR, is a technique to make many copies of a specific DNA region in vitro and relies on a thermostable DNA polymerase, Taq polymerase, and requires DNA primers designed specifically for the DNA region of interest. Using PCR it is possible to generate thousands to millions of copies of a particular section of DNA from a very small amount of DNA and is a common tool that is routinely used in DNA cloning, medical diagnostics, and forensic analysis of DNA. PCR technique is based on the natural processes a cell uses to replicate a new DNA strand.

Five core 'ingredients' are required to set up a PCR i.e. the DNA template to be copied, primers, DNA nucleotide bases, Taq polymerase enzyme, and buffer. PCR involves a process of heating and cooling called thermal cycling which is carried out by a machine in three main stages Denaturing, Annealing and Extending. These three stages are repeated 20-40 times, doubling the number of DNA copies each time. After PCR has been completed, electrophoresis can be used to check the quantity and size of the DNA fragments produced. PCR is used in many areas of biology and medicine, including molecular biology research, medical diagnostics, and even some branches of ecology.

Polymerase Chain Reaction market is anticipated to witness remarkable growth during the given forecast period. The growth in the market may be attributed to the rising use of polymerase chain reactions in clinical diagnostics and drug development.

Technological advancements in the PCR techniques will also positively impact the market during the given forecast period. However, the high cost of the instruments required for Polymerase chain reactions might hamper the growth of the market during

the given time frame.

### By Product Type

By product type, the global Polymerase Chain Reaction (PCR) Market is segmented as Reagents, Instruments, Consumables and Software. Reagents section is expected to hold a significant share owing to the high consumption of the reagents and availability of different types of tests that require multiple types of reagents. Rising innovation in the reagent specificity will also boost the market for the segment during the given forecast period.

### By End Users

In terms of end-user, the global Polymerase Chain Reaction (PCR) market is segmented as Pharmaceuticals and Biopharmaceutical Companies, Diagnostic Labs and Research Institutes. The pharmaceutical and biotechnology industry segment is expected to witness steady growth during the given time frame. The growth may be attributed to the continuous development in the pharmaceutical and biotechnology industries.

### By Geography

Geographically, the Polymerase Chain Reaction (PCR) market is segmented as North America, South America, Europe, Middle East and Africa, and Asia Pacific. North America accounted for a significant market share in 2018 due to the rising incidence of various types of cancer and metabolic diseases that demand advanced diagnosis and therapies. Early adoption of the technology in the region will also boost the adoption of the PCR in the region. Asia Pacific is projected to witness the fastest regional market growth during the forecast period. Improved health care infrastructure and rising investment in healthcare and in life science research will fuel the growth of the PCR market in this region.

### Segmentation

The Polymerase Chain Reaction (PCR) market has been segmented by product type, application, end-users, and geography.

### By Product Type

Reagents

Instruments

Consumables

Software

By Application

Clinical Diagnosis

Forensic Laboratories

Life Science Research

Others

By End Users

Pharmaceuticals and Biopharmaceutical Companies

Diagnostic Labs

Research Institutes

By Geography

North America

USA

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

Germany

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Spain

Others

Middle East and Africa

Saudi Arabia

Israel

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Others

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China

Japan

South Korea

India

Others

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