

# India Polymerase Chain Reaction (PCR) Devices Market, By Type (Quantitative PCR, Digital PCR, Others), By End User (Hospitals & Clinics, Diagnostic Laboratories, Pharmaceutical & Biotechnology Companies, Others), By Region, Competition Forecast & Opportunities, 2027

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## Abstracts

The India polymerase chain reaction (PCR) devices market is anticipated to observe impressive growth during the forecast period 2023-2027. The major factors include increasing incidences of chronic, infectious, and genetic diseases, a rise in the adoption of advanced techniques in the field of life sciences, and rising awareness and demand for precision medicine, which are propelling the growth of the market. Polymerase chain reaction (PCR) is a technique used in the laboratory for rapidly producing or amplifying millions to billions of versions of a certain segment of DNA, which can then be studied in brief. The other factor which is bolstering the market growth is hasty investments in the pharmaceutical and healthcare industry, growing population, expanding healthcare sector, growing R&D activities, increasing use of PCR techniques in clinical diagnostics, favorable initiatives undertaken by government bodies, and rising health issues. Also, increasing demand for genetic testing procedures and rising inorganic strategic growth are facilitating the growth of the market.

### Rising Prevalence of Infectious Diseases, Chronic Diseases, and Genetic Disorders

Growing incidences of infectious, chronic, and genetic diseases in the country are the key reasons for augmenting the growth of the market. Tuberculosis is one of the most common infectious diseases, which is considerably prevalent in India. According to the WHO, in 2020, around 504,000 people died due to tuberculosis, which is a 13%

increase from the previous year. Owing to the rise in people suffering from various types of diseases, the demand for products for diagnosis is surging, which in turn, bolsters the growth of the market. Also, the rise in the geriatric population is driving the growth of the market. This is attributed to the surge in the number of elderly people suffering from various diseases. According to the first Longitudinal Ageing Study in India (LASI) announced by the Union Ministry of Family and Health Welfare in 2020, two in every three senior citizens suffer from some chronic disease.

### Rising Technological Developments to Support Market Growth

The rise in technological advancements and the growing need for innovative devices is augmenting the growth of the market. The continuous technological advancements in PCR technologies such as miniaturized devices, miniaturized portable instruments, incorporation of robotics in devices, and others are surging the growth of the market. This is due to the various clinical benefits provided by these devices to healthcare providers and patients. Over the past few years, there has been a drastic shift towards digital PCR diagnostic techniques and automated instruments, which, in turn, fuels the growth of the market. For instance, in 2021, Thermo Fisher Scientific announced the Applied Biosystem QuantStudio Absolute Q-Digital PCR System, the first fully integrated digital PCR (dPCR) system intended to deliver highly accurate and reliable results within 90 minutes.

### Rising Demand for Personalized and Precision Medicine

The rising awareness and demand for precision medicine are bolstering the growth of the market. People are being educated by doctors about the benefits associated with personalized medicine. Precision medicine aims to offer tailor-made therapies to individual people. Precision medicine is based on the patient's genes, diseases, and others. These medicines have enormous potential to cure various diseases, thus augmenting the growth of the market. Furthermore, precision and personalized medicines have created massive opportunities in the field of genetic medicine. To facilitate personalized medicine, PCR is used to gather molecular information about the underlying disease. This, in turn, bolsters the growth of the market.

### Market Segmentation

The India polymerase chain reaction (PCR) devices market is segmented into type, end user, and company. Based on type, the market is divided into quantitative PCR, digital PCR, and others. Based on end-user, the market is further divided into hospitals &

clinics, diagnostic laboratories, pharmaceutical & biotechnology companies, and others. Based on quantitative PCR, the market is further divided into product, application, and end user. Based on product, the market is further divided into reagents & consumables, instruments, and software & services. Based on application, the market is further divided into medical v/s non-medical. Based on medical applications, the market is further divided into clinical applications, research, and forensics. Based on clinical applications, the market is further divided into pathogen testing, oncology testing, blood screening, and others. Based on research applications, the market is further divided into stem cell research, DNA cloning & sequencing, recombinant DNA technology, and others. Based on non-medical applications, the market is further divided into food, agricultural biotechnology, and others. Based on end-user, the market is further divided into hospitals & clinics, diagnostic laboratories, pharmaceutical & biotechnology companies, and others. Based on digital PCR, the market is further divided into type, product, application, and end user. Based on type, the market is further divided into droplet digital PCR systems and chip-based digital PCR systems. Based on product, the market is divided into reagents & consumables, kits & assays, and systems. Based on application, the market is divided into oncology, infectious diseases, rare diseases, reproductive genetics, and others. Based on end-user, the market is further divided into hospitals & clinics, diagnostic laboratories, pharmaceutical & biotechnology companies, and others. In terms of region, the market is segmented into south, east, west, and north.

## Market Players

Thermo Fisher Scientific India Private Limited, Bio-Rad Laboratories (India) Private Limited, Qiagen India Pvt Ltd, Cole-Parmer India Pvt. Ltd., Abbott India Limited, Roche Diagnostics India Pvt. Ltd., and Molbio Diagnostics Pvt. Ltd. are some of the leading companies operating in the market.

## Report Scope:

In this report, India polymerase chain reaction (PCR) devices market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

India Polymerase Chain Reaction (PCR) Devices Market, By type:

Quantitative PCR

Product

Reagents & Consumables

Instruments

Software & Services

Application

Medical Applications

Clinical Applications

Pathogen Testing

Oncology Testing

Blood Screening

Others

Research Applications

Stem Cell Research

DNA Cloning & Sequencing

Recombinant DNA Technology

Others

Forensics

Non-Medical Applications

Food

Agricultural Biotechnology

Others

End User

Hospitals & Clinics

Diagnostic Laboratories

Pharmaceutical & Biotechnology Companies

Others

Digital PCR

Type

Droplet Digital PCR Systems

Chip-Based Digital PCR Systems

Product

Reagents & Consumables

Kits & Assays

Systems

Application

Oncology

Infectious Diseases

Rare Diseases

Reproductive Genetics

Others

End User

Hospitals & Clinics

Diagnostic Laboratories

Pharmaceutical & Biotechnology Companies

Others

#### India Polymerase Chain Reaction (PCR) Devices Market, By End User:

Hospitals & Clinics

Diagnostic Laboratories

Pharmaceutical & Biotechnology Companies

Others

#### India Polymerase Chain Reaction (PCR) Devices Market, By region:

South

East

West

North

#### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present India polymerase chain reaction (PCR) devices market

Available Customizations:

*India Polymerase Chain Reaction (PCR) Devices Market, By Type (Quantitative PCR, Digital PCR, Others), By End...*

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

#### Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### 1. PRODUCT OVERVIEW

### 2. RESEARCH METHODOLOGY

### 3. IMPACT OF COVID-19 ON INDIA POLYMERASE CHAIN REACTION (PCR) DEVICES MARKET

### 4. VOICE OF CUSTOMER

### 5. EXECUTIVE SUMMARY

### 6. INDIA POLYMERASE CHAIN REACTION DEVICES (PCR) DEVICES RENTAL OVERVIEW

### 7. INDIA POLYMERASE CHAIN REACTION (PCR) DEVICES MARKET OUTLOOK

#### 7.1. Market Size & Forecast

##### 7.1.1. By Value & Volume

#### 7.2. Market Share & Forecast

##### 7.2.1. By Type (Quantitative PCR, Digital PCR, Others)

##### 7.2.2. By End User (Hospitals & Clinics, Diagnostic Laboratories, Pharmaceutical & Biotechnology Companies, Others)

##### 7.2.3. By Region

###### 7.2.3.1. By State (Top 3 States)

##### 7.2.4. By Company (2022)

#### 7.3. Product Market Map

### 8. INDIA QUANTITATIVE POLYMERASE CHAIN REACTION (PCR) DEVICES MARKET OUTLOOK

#### 8.1. Market Size & Forecast

##### 8.1.1. By Value & Volume

#### 8.2. Market Share & Forecast

##### 8.2.1. By Product (Reagents & Consumables, Instruments, Software & Services)

##### 8.2.2. By Application (Medical v/s non-Medical)

###### 8.2.2.1. Medical Applications (Clinical Applications, Research, Forensics)

###### 8.2.2.1.1. By Clinical Applications (Pathogen Testing, Oncology Testing, Blood



Screening, Others)

8.2.2.1.2. By Research Applications (Stem Cell Research, DNA Cloning & Sequencing, Recombinant DNA Technology, Others)

8.2.2.2. By Non-Medical Applications (Food, Agricultural Biotechnology, Others)

8.2.3. By End User (Hospitals & Clinics, Diagnostic Laboratories, Pharmaceutical & Biotechnology Companies, Others)

8.3. Pricing Analysis

## **9. INDIA DIGITAL POLYMERASE CHAIN REACTION (PCR) DEVICES MARKET OUTLOOK**

9.1. Market Size & Forecast

9.1.1. By Value & Volume

9.2. Market Share & Forecast

9.2.1. By Type (Droplet Digital PCR Systems v/s Chip-Based Digital PCR Systems)

9.2.2. By Product (Reagents & Consumables, Kits & Assays, Systems)

9.2.3. By Application (Oncology, Infectious Diseases, Rare Diseases, Reproductive Genetics, Others)

9.2.4. By End User (Hospitals & Clinics, Diagnostic Laboratories, Pharmaceutical & Biotechnology Companies, Others)

9.3. Pricing Analysis

## **10. MARKET DYNAMICS**

10.1. Drivers

10.2. Challenges

## **11. MARKET TRENDS & DEVELOPMENTS**

## **12. POLICY & REGULATORY LANDSCAPE**

## **13. INDIA ECONOMIC PROFILE**

## **14. PORTERS FIVE FORCES ANALYSIS**

## **15. PESTLE ANALYSIS**

## **16. LIST OF POLYMERASE CHAIN REACTION (PCR) DEVICES SUPPLIERS (UP TO 10, BY REGION)**

## **17. COMPETITIVE LANDSCAPE (INCLUSIVE OF SWOT ANALYSIS)**

17.1. Thermo Fisher Scientific India Private Limited

17.2. Bio-Rad Laboratories (India) Private Limited

17.3. Qiagen India Pvt Ltd

17.4. Cole-Parmer India Pvt. Ltd.

17.5. Abbott India Limited

17.6. Roche Diagnostics India Pvt. Ltd.

17.7. Molbio Diagnostics Pvt. Ltd.

## **18. STRATEGIC RECOMMENDATIONS**

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