

**PCR Technology Market Size and Forecast (2020 - 2030), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Technology (Real-Time PCR, Conventional PCR, Reverse Transcription PCR, Digital PCR, Multiplex RT PCR, Hot Start PCR, and Others), Offerings (Reagents and Consumables, Instruments, and Software and Services), Application (Gene Expression Analysis, Genetic Sequencing, Genotyping, Nucleic Acid Synthesis, Standard Validation, Point of Care Diagnostics, Environmental Application, and Others), End User (Hospitals and Diagnostic Centers, Academia and Research Institutes, Pharmaceutical and Biotechnology Companies, and Others), and Geography (North America, Europe, Asia Pacific, South & Central America, and Middle East & Africa)**

<https://marketpublishers.com/r/PDDE2ACD0A37EN.html>

Date: January 2024

Pages: 262

Price: US\$ 5,190.00 (Single User License)

ID: PDDE2ACD0A37EN

## **Abstracts**

The PCR technologies market is expected to grow from US\$ 13.101 billion in 2022 to US\$ 24.524 billion by 2030; it is anticipated to register a CAGR of 8.2% from 2022 to 2030. The rising prevalence of genetic and infectious diseases and surging investments and funds for PCR technologies propel the PCR technologies market growth.

PCR is crucial in clinical settings as it enables rapid and precise detection of genetic variants, infectious diseases, and biomarkers. A popular molecular biology technique called polymerase chain reaction (PCR) amplifies DNA and RNA sequences, enabling various applications in research, diagnostics, and other areas. In addition, the need for PCR-based diagnostics has been fueled due to the increasing prevalence of chronic diseases and developments in genomic research. Additionally, automation, integration, and ongoing improvements in PCR instruments, chemicals, and software have increased the performance, sensitivity, and efficiency of workflows, thereby driving the expansion of the market.

### Rising Prevalence of Genetic and Infectious Diseases Drives the PCR Technologies Market

According to the National Organization's information on genetic conditions or congenital disabilities, genetic disorders are rare conditions, but they collectively comprise over 15,500 positive diagnoses every year. Estimates published in a report by MJH Life Sciences (US) in 2022 state that ~300,000 newborns are born with sickle cell disease (SCD) globally every year, accounting for 5% of the global population. In the US, SCD is one of the most prevalent genetic conditions. According to the Centers for Disease Control and Prevention (CDC), 1 in 500 African Americans is affected by an SCD, and 1 in 12 of them suffer from the autosomal recessive mutation. As per the June 2020 report by Novartis AG (Switzerland), 15,000 individuals and 270 newborns are diagnosed with SCDs every year. The disease is most prevalent in emerging nations such as India. Among India's tribal communities, 18 million people exhibit sickle cell traits (SCTs), and 1.4 million people are suffering from SCDs. As a result of the rising incidence of SCDs, the adoption of digital polymerase chain reaction (dPCR) is increasing in pathology centers, wherein this technology is being exploited for targeting various DNA-specific sequences to confirm diagnoses and design various clinical tests. dPCR can target specific DNA sequences in just one molecule of DNA. This tool allows researchers to detect rare genetic mutations that are difficult to identify using real-time PCR.

The COVID-19 outbreak had a substantial effect on the PCR technologies market. PCR is a nearly ubiquitous, robust, and reliable technology used in most molecular biology labs to amplify specific stretches of DNA for genotyping, cloning, and analysis of single nucleotide variations. The amplified DNA is the basis for most next-generation sequencing (NGS) preparations. Nearly all diagnostic tests used real-time PCR for testing people having symptoms of COVID-19. The majority of biotech and pharmaceutical businesses shifted their focus toward research and development

divisions to find novel compounds or therapeutic approaches for COVID-19, which, in turn, benefitted the PCR technologies market. In February 2022, Roche added the Cobas 5800 System, a newly released molecular laboratory instrument, to its COVID-19 PCR portfolio for use in nations that accept the CE certification. These products include the Cobas SARS-CoV-2 and influenza A/B tests and the Cobas SARS-CoV-2 qualitative test. The product offers uniform performance and efficiency in low-, medium-, and high-volume molecular laboratory tests.

## Market Opportunity

### Increasing Adoption of PCR Techniques in Emerging Countries

In recent years, molecular methods such as PCR have evolved as diagnostic tools, enabling healthcare professionals to diagnose various infectious diseases accurately. It is also considered an indispensable research and diagnostic tool. PCR allows the early diagnosis of disease and hence plays an essential role in disease control. The technique provides reproducible results comparable to different laboratories and is accepted worldwide. PCR techniques are also being widely accepted and utilized in emerging countries. According to the World Health Organization Report on Establishment of PCR Laboratory in Developing Countries 2016, WHO provides technical assistance to establish PCR laboratories in all 11 WHO Southeast Asia countries. Depending on their need, these facilities have adopted different PCR technologies such as reverse transcriptase PCR (RT-PCR), multiplex PCR, real-time PCR, in-situ PCR, and dPCR. The application of PCR technologies is increasing in clinical microbiology, virology, parasitology, biotechnology, and allied fields due to this tool's simple, rapid, and highly specific screening. Thus, the PCR technologies market in developing countries is expected to experience lucrative opportunities during the forecast period.

The “Global PCR Technologies Market” is segmented based on technology, offerings, applications, end users, and geography.

## Technology-Based Insights

The PCR technologies market is segmented based on technology into real-time PCR, conventional PCR, reverse transcription, digital PCR (dPCR), multiplex RT-PCR, hot start PCR, and others. The real-time PCR segment held a larger market share in 2022, and the same segment is anticipated to register a higher CAGR of 8.8% during 2022–2030. Real-time PCR is a nuclear-based approach for identifying specific genetic

material in any disease, including viruses. Real-time PCR has become one of the most extensively used methods of gene quantification. Because of its dynamic range, remarkable sensitivity, ability to be very sequence-specific, no post-amplification processing, and ability to increase sample throughput, getting the most out of these benefits necessitates a thorough awareness of the many running options accessible.

### Offerings-Based Insights

Based on offerings, the PCR technologies market is segmented into reagents and consumables, instruments, and software and services. The reagents and consumables segment held a larger market share in 2022. Moreover, the same segment is anticipated to register a higher CAGR of 9.1% during 2022-2030. Reagents and consumables are essential parts of the PCR procedures. It includes buffers, probes, enzymes, dyes, vials, kits, and panels. Also, several kits are available for gene expression analysis, SNP genotyping analysis, microRNA analysis, and others. The growing demand for earlier detection of disease, widespread use of consumables and reagents, and expanding demand for PCRs for healthcare, research, and other purposes have significantly fueled the market for the segment. The presence of manufacturers, such as Thermo Fisher Scientific, Kaneka Eurogentec S.A., and QIAGEN, characterizes the reagents and consumables segment. Further, frequent product launches, rising acceptance of technology innovations, and increasing availability of the products are also among the major factors contributing to the market growth for the segment.

### Application-Based Insights

Based on application, the PCR technologies market is segmented into gene expression analysis, genetic sequencing, genotyping, nucleic acid synthesis, standard validation, point of care diagnostic application, environmental application, and others. The gene expression analysis segment held a larger market share in 2022. Moreover, the same segment is anticipated to register a higher CAGR of 9.0% during 2022-2030. Gene expression analysis examines how genes are recorded to synthesize functional gene products toward functional RNA species or protein products. The study of gene regulation helps provide visions into normal cellular processes, such as differentiation and abnormal or pathological processes. Researchers can perform gene expression analysis at one of the various levels at which the gene expression is regulated, namely transcriptional, post-transcriptional, translational, and post-translational protein modification.

## End User-Based Insights

Based on end users, the PCR technologies market is segmented into hospitals and diagnostic centers, pharmaceutical and biotechnology companies, research laboratories and academic institutes, and others. The hospitals and diagnostic centers segment held a larger market share in 2022. Moreover, the same segment is anticipated to register a higher CAGR of 8.7% during 2022-2030. Hospitals and diagnostic centers contribute a significant market share to the PCR technologies market. Hospitals are the primary centers for patients seeking highly advanced treatment under the guidance of highly trained personnel. Various PCR technologies, such as dPCR and qPCR, offer high sensitivity and specificity, allowing early and accurate detection of pathogens, including bacteria, viruses, and fungi. Hospitals also offer advanced diagnosis and treatment options for patients to treat acute and chronic conditions, and the adoption of PCR techniques is much higher in hospitals and diagnostic centers as they provide healthcare facilities with specialized scientific equipment. Diagnostic laboratories are well-equipped with hi-tech equipment that enables easy workflow and management of various samples to be tested. For instance, Bio-Rad Laboratories, Inc., Fluidigm Corporation, Eppendorf, and Agilent Technologies, Inc. offer PCR devices to hospitals and diagnostic centers based on their capacity and requirements.

Food and Drug Administration, Pharmaceutical Research and Manufacturers Association, and Japan Bioindustry Association are some relevant sources referred to while preparing the PCR technologies market research report.

## Contents

### **1. INTRODUCTION**

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

### **2. EXECUTIVE SUMMARY**

- 2.1 Key Insights
- 2.2 PCR Technologies Market, by Geography (US\$ Million)

### **3. RESEARCH METHODOLOGY**

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

### **4. PCR TECHNOLOGIES MARKET LANDSCAPE**

- 4.1 Overview
- 4.2 Global PEST Analysis

### **5. PCR TECHNOLOGIES MARKET – KEY INDUSTRY DYNAMICS**

- 5.1 PCR Technologies Market – Key Industry Dynamics
- 5.2 Market Drivers
  - 5.2.1 Rising Prevalence of Genetic and Infectious Diseases
  - 5.2.2 Surging Investments and Funds Availability for PCR Technologies
- 5.3 Market Restraints
  - 5.3.1 High Costs of PCR Systems and Availability of Alternative Assays
- 5.4 Market Opportunities
  - 5.4.1 Increasing Adoption of PCR Techniques in Emerging Countries
- 5.5 Future Trends
  - 5.5.1 Advancements in PCR Technologies
- 5.6 Impact of Drivers and Restraints:

### **6. PCR TECHNOLOGIES MARKET – GLOBAL MARKET ANALYSIS**

6.1 PCR Technologies Market Revenue (US\$ Million), 2022 – 2030

## **7. PCR TECHNOLOGIES MARKET ANALYSIS – BY TECHNOLOGY**

7.1 Overview

7.2 Real Time PCR

7.2.1 Overview

7.2.2 Real Time PCR Market, Revenue and Forecast to 2030 (US\$ Million)

7.3 Conventional PCR

7.3.1 Overview

7.3.2 Conventional PCR Market, Revenue and Forecast to 2030 (US\$ Million)

7.4 Reverse Transcription PCR

7.4.1 Overview

7.4.2 Reverse Transcription PCR Market, Revenue and Forecast to 2030 (US\$ Million)

7.5 Digital PCR

7.5.1 Overview

7.5.2 Digital PCR Market, Revenue and Forecast to 2030 (US\$ Million)

7.6 Multiplex RT PCR

7.6.1 Overview

7.6.2 Multiplex RT PCR Market, Revenue and Forecast to 2030 (US\$ Million)

7.7 Hot Start PCR

7.7.1 Overview

7.7.2 Hot Start PCR Market, Revenue and Forecast to 2030 (US\$ Million)

7.8 Others

7.8.1 Overview

7.8.2 Others Market, Revenue and Forecast to 2030 (US\$ Million)

## **8. PCR TECHNOLOGIES MARKET ANALYSIS – BY OFFERINGS**

8.1 Overview

8.2 PCR Technologies Market Revenue Share, by Offerings 2022 & 2030 (%)

8.3 Reagents and Consumables

8.3.1 Overview

8.3.2 Reagents and Consumables Market, Revenue and Forecast to 2030 (US\$ Million)

8.3.2.1 PCR Technologies Market – Revenue and Forecast to 2030(US\$ Million) – By Reagents and Consumables

8.3.2.1.1 PCR Technologies Market – Revenue and Forecast to 2030(US\$ Million) – By Vial Size

## 8.4 Instruments

### 8.4.1 Overview

### 8.4.2 Instruments Market, Revenue and Forecast to 2030 (US\$ Million)

#### 8.4.2.1 PCR Technologies Market – Revenue and Forecast to 2030(US\$ Million) – By Instruments

## 8.5 Software and Services

### 8.5.1 Overview

### 8.5.2 Software and Services Market, Revenue and Forecast to 2030 (US\$ Million)

## 9. PCR TECHNOLOGIES MARKET ANALYSIS – BY APPLICATION

### 9.1 Overview

### 9.2 PCR Technologies Market Revenue Share, by Application 2022 & 2030 (%)

### 9.3 Gene Expression Analysis

#### 9.3.1 Overview

#### 9.3.2 Gene Expression Analysis Market, Revenue and Forecast to 2030 (US\$ Million)

### 9.4 Genetic Sequencing

#### 9.4.1 Overview

#### 9.4.2 Genetic Sequencing Market, Revenue and Forecast to 2030 (US\$ Million)

### 9.5 Genotyping

#### 9.5.1 Overview

#### 9.5.2 Genotyping Market, Revenue and Forecast to 2030 (US\$ Million)

### 9.6 Nucleic Acid Synthesis

#### 9.6.1 Overview

#### 9.6.2 Nucleic Acid Synthesis Market, Revenue and Forecast to 2030 (US\$ Million)

### 9.7 Standard Validation

#### 9.7.1 Overview

#### 9.7.2 Standard Validation Market, Revenue and Forecast to 2030 (US\$ Million)

### 9.8 Point of Care Diagnostics

#### 9.8.1 Overview

#### 9.8.2 Point of Care Diagnostics Market, Revenue and Forecast to 2030 (US\$ Million)

### 9.9 Environmental Application

#### 9.9.1 Overview

#### 9.9.2 Environmental Application Market, Revenue and Forecast to 2030 (US\$ Million)

### 9.10 Others

#### 9.10.1 Overview

#### 9.10.2 Others Market, Revenue and Forecast to 2030 (US\$ Million)

## 10. PCR TECHNOLOGIES MARKET ANALYSIS – BY END USER



## 10.1 Overview

### 10.2 PCR Technologies Market Revenue Share, by End User 2022 & 2030 (%)

## 10.3 Hospitals and Diagnostic Centers

### 10.3.1 Overview

### 10.3.2 Hospitals and Diagnostic Centers Market, Revenue and Forecast to 2030 (US\$ Million)

## 10.4 Academia and Research Institutes

### 10.4.1 Overview

### 10.4.2 Academia and Research Institutes Market, Revenue and Forecast to 2030 (US\$ Million)

## 10.5 Pharmaceutical and Biotechnology Companies

### 10.5.1 Overview

### 10.5.2 Pharmaceutical and Biotechnology Companies Market, Revenue and Forecast to 2030 (US\$ Million)

## 10.6 Others

### 10.6.1 Overview

### 10.6.2 Others Market, Revenue and Forecast to 2030 (US\$ Million)

## **11. PCR TECHNOLOGIES MARKET – GEOGRAPHICAL ANALYSIS**

### 11.1 North America: PCR Technologies Market

#### 11.1.1 Overview

#### 11.1.2 North America PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

##### 11.1.2.1 North America PCR Technologies Market Revenue and Forecast and Analysis – By Technology

##### 11.1.2.2 North America PCR Technologies Market Revenue and Forecast and Analysis – By Offerings

##### 11.1.2.2.1 North America PCR Technologies Market Revenue and Forecast and Analysis – By Instruments

##### 11.1.2.2.2 North America PCR Technologies Market Revenue and Forecast and Analysis – By Reagents And Consumables

##### 11.1.2.2.2.1 North America PCR Technologies Market Revenue and Forecast and Analysis – By Vial Size

##### 11.1.2.3 North America PCR Technologies Market Revenue and Forecast and Analysis – By Application

##### 11.1.2.4 North America PCR Technologies Market Revenue and Forecast and Analysis – By End User

- 11.1.3 North America PCR Technologies Market Revenue and Forecast and Analysis – By Country
  - 11.1.3.1 United States: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)
    - 11.1.3.1.1 Overview
    - 11.1.3.2 United States PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)
      - 11.1.3.2.1 United States PCR Technologies Market Breakdown by Technology
      - 11.1.3.2.2 United States PCR Technologies Market Breakdown by Offerings
        - 11.1.3.2.2.1 United States PCR Technologies Market Breakdown by Instruments
        - 11.1.3.2.2.2 United States PCR Technologies Market Breakdown by Reagents And Consumables
          - 11.1.3.2.2.2.1 United States PCR Technologies Market Breakdown by Vial Size
      - 11.1.3.2.3 United States PCR Technologies Market Breakdown by Application
      - 11.1.3.2.4 United States PCR Technologies Market Breakdown by End User
    - 11.1.3.3 Canada: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)
      - 11.1.3.3.1 Overview
      - 11.1.3.4 Canada PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)
        - 11.1.3.4.1 Canada PCR Technologies Market Breakdown by Technology
        - 11.1.3.4.2 Canada PCR Technologies Market Breakdown by Offerings
          - 11.1.3.4.2.1 Canada PCR Technologies Market Breakdown by Instruments
          - 11.1.3.4.2.2 Canada PCR Technologies Market Breakdown by Reagents And Consumables
            - 11.1.3.4.2.2.1 Canada PCR Technologies Market Breakdown by Vial Size
        - 11.1.3.4.3 Canada PCR Technologies Market Breakdown by Application
        - 11.1.3.4.4 Canada PCR Technologies Market Breakdown by End User
      - 11.1.3.5 Mexico: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)
        - 11.1.3.5.1 Overview
        - 11.1.3.6 Mexico PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)
          - 11.1.3.6.1 Mexico PCR Technologies Market Breakdown by Technology
          - 11.1.3.6.2 Mexico PCR Technologies Market Breakdown by Offerings
            - 11.1.3.6.2.1 Mexico PCR Technologies Market Breakdown by Instruments
            - 11.1.3.6.2.2 Mexico PCR Technologies Market Breakdown by Reagents And Consumables
              - 11.1.3.6.2.2.1 Mexico PCR Technologies Market Breakdown by Vial Size
          - 11.1.3.6.3 Mexico PCR Technologies Market Breakdown by Application

- 11.1.3.6.4 Mexico PCR Technologies Market Breakdown by End User
- 11.2 Europe: PCR Technologies Market
  - 11.2.1 Overview
  - 11.2.2 Europe PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)
    - 11.2.2.1 Europe PCR Technologies Market Revenue and Forecast and Analysis – By Technology
    - 11.2.2.2 Europe PCR Technologies Market Revenue and Forecast and Analysis – By Offerings
      - 11.2.2.2.1 Europe PCR Technologies Market Revenue and Forecast and Analysis – By Instruments
      - 11.2.2.2.2 Europe PCR Technologies Market Revenue and Forecast and Analysis – By Reagents And Consumables
        - 11.2.2.2.2.1 Europe PCR Technologies Market Revenue and Forecast and Analysis – By Vial Size
    - 11.2.2.3 Europe PCR Technologies Market Revenue and Forecast and Analysis – By Application
  - 11.2.3 Europe PCR Technologies Market Breakdown by End User
    - 11.2.3.1 Europe PCR Technologies Market Revenue and Forecast and Analysis – By End User
  - 11.2.4 Europe PCR Technologies Market Revenue and Forecast and Analysis – By Country
    - 11.2.4.1 Germany: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)
      - 11.2.4.1.1 Overview
      - 11.2.4.2 Germany PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)
        - 11.2.4.2.1 Germany PCR Technologies Market Breakdown by Technology
        - 11.2.4.2.2 Germany PCR Technologies Market Breakdown by Offerings
          - 11.2.4.2.2.1 Germany PCR Technologies Market Breakdown by Instruments
          - 11.2.4.2.2.2 Germany PCR Technologies Market Breakdown by Reagents And Consumables
            - 11.2.4.2.2.2.1 Germany PCR Technologies Market Breakdown by Vial Size
          - 11.2.4.2.3 Germany PCR Technologies Market Breakdown by Application
          - 11.2.4.2.4 Germany PCR Technologies Market Breakdown by End User
        - 11.2.4.3 United Kingdom: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)
          - 11.2.4.3.1 Overview
        - 11.2.4.4 United Kingdom PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

- 11.2.4.4.1 United Kingdom PCR Technologies Market Breakdown by Technology
- 11.2.4.4.2 United Kingdom PCR Technologies Market Breakdown by Offerings
  - 11.2.4.4.2.1 United Kingdom PCR Technologies Market Breakdown by Instruments
  - 11.2.4.4.2.2 United Kingdom PCR Technologies Market Breakdown by Reagents And Consumables
    - 11.2.4.4.2.2.1 United Kingdom PCR Technologies Market Breakdown by Vial Size
- 11.2.4.4.3 United Kingdom PCR Technologies Market Breakdown by Application
- 11.2.4.4.4 United Kingdom PCR Technologies Market Breakdown by End User
- 11.2.4.5 France: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)
  - 11.2.4.5.1 Overview
- 11.2.4.6 France PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)
  - 11.2.4.6.1 France PCR Technologies Market Breakdown by Offerings
    - 11.2.4.6.1.1 France PCR Technologies Market Breakdown by Instruments
    - 11.2.4.6.1.2 France PCR Technologies Market Breakdown by Reagents And Consumables
      - 11.2.4.6.1.2.1 France PCR Technologies Market Breakdown by Vial Size
  - 11.2.4.6.2 France PCR Technologies Market Breakdown by Application
  - 11.2.4.6.3 France PCR Technologies Market Breakdown by End User
- 11.2.4.7 Italy: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)
  - 11.2.4.7.1 Overview
- 11.2.4.8 Italy PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)
  - 11.2.4.8.1 Italy PCR Technologies Market Breakdown by Technology
  - 11.2.4.8.2 Italy PCR Technologies Market Breakdown by Offerings
    - 11.2.4.8.2.1 Italy PCR Technologies Market Breakdown by Instruments
    - 11.2.4.8.2.2 Italy PCR Technologies Market Breakdown by Reagents And Consumables
      - 11.2.4.8.2.2.1 Italy PCR Technologies Market Breakdown by Vial Size
  - 11.2.4.8.3 Italy PCR Technologies Market Breakdown by Application
  - 11.2.4.8.4 Italy PCR Technologies Market Breakdown by End User
- 11.2.4.9 Spain: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)
  - 11.2.4.9.1 Overview
- 11.2.4.10 Spain PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)
  - 11.2.4.10.1 Spain PCR Technologies Market Breakdown by Technology
  - 11.2.4.10.2 Spain PCR Technologies Market Breakdown by Offerings
    - 11.2.4.10.2.1 Spain PCR Technologies Market Breakdown by Instruments

#### 11.2.4.10.2.2 Spain PCR Technologies Market Breakdown by Reagents And Consumables

##### 11.2.4.10.2.2.1 Spain PCR Technologies Market Breakdown by Vial Size

#### 11.2.4.10.3 Spain PCR Technologies Market Breakdown by Application

#### 11.2.4.10.4 Spain PCR Technologies Market Breakdown by End User

#### 11.2.4.11 Rest of Europe: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)

##### 11.2.4.11.1 Overview

#### 11.2.4.12 Rest of Europe PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

##### 11.2.4.12.1 Rest of Europe PCR Technologies Market Breakdown by Technology

##### 11.2.4.12.2 Rest of Europe PCR Technologies Market Breakdown by Offerings

#### 11.2.4.12.2.1 Rest of Europe PCR Technologies Market Breakdown by Instruments

#### 11.2.4.12.2.2 Rest of Europe PCR Technologies Market Breakdown by Reagents And Consumables

#### 11.2.4.12.2.2.1 Rest of Europe PCR Technologies Market Breakdown by Vial Size

##### 11.2.4.12.3 Rest of Europe PCR Technologies Market Breakdown by Application

##### 11.2.4.12.4 Rest of Europe PCR Technologies Market Breakdown by End User

#### 11.3 Asia Pacific: PCR Technologies Market

##### 11.3.1 Overview

#### 11.3.2 Asia Pacific PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

#### 11.3.2.1 Asia Pacific PCR Technologies Market Revenue and Forecast and Analysis – By Technology

#### 11.3.2.2 Asia Pacific PCR Technologies Market Revenue and Forecast and Analysis – By Offerings

#### 11.3.2.2.1 Asia Pacific PCR Technologies Market Revenue and Forecast and Analysis – By Instruments

#### 11.3.2.2.2 Asia Pacific PCR Technologies Market Revenue and Forecast and Analysis – By Reagents And Consumables

#### 11.3.2.2.3 Asia Pacific PCR Technologies Market Revenue and Forecast and Analysis – By Vial Size

#### 11.3.2.3 Asia Pacific PCR Technologies Market Revenue and Forecast and Analysis – By Application

#### 11.3.2.4 Asia Pacific PCR Technologies Market Revenue and Forecast and Analysis – By End User

#### 11.3.3 Asia Pacific PCR Technologies Market Revenue and Forecast and Analysis –

## By Country

### 11.3.3.1 China: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)

#### 11.3.3.1.1 Overview

### 11.3.3.2 China PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

#### 11.3.3.2.1 China PCR Technologies Market Breakdown by Technology

#### 11.3.3.2.2 China PCR Technologies Market Breakdown by Offerings

##### 11.3.3.2.2.1 China PCR Technologies Market Breakdown by Instruments

##### 11.3.3.2.2.2 China PCR Technologies Market Breakdown by Reagents And

#### Consumables

##### 11.3.3.2.2.2.1 China PCR Technologies Market Breakdown by Vial Size

#### 11.3.3.2.3 China PCR Technologies Market Breakdown by Application

#### 11.3.3.2.4 China PCR Technologies Market Breakdown by End User

### 11.3.3.3 Japan PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)

#### 11.3.3.3.1 Overview

### 11.3.3.4 Japan PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

#### 11.3.3.4.1 Japan PCR Technologies Market Breakdown by Technology

#### 11.3.3.4.2 Japan PCR Technologies Market Breakdown by Offerings

##### 11.3.3.4.2.1 Japan PCR Technologies Market Breakdown by Instruments

##### 11.3.3.4.2.2 Japan PCR Technologies Market Breakdown by Reagents And

#### Consumables

##### 11.3.3.4.2.2.1 Japan PCR Technologies Market Breakdown by Vial Size

#### 11.3.3.4.3 Japan PCR Technologies Market Breakdown by Application

#### 11.3.3.4.4 Japan PCR Technologies Market Breakdown by End User

### 11.3.3.5 India: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)

#### 11.3.3.5.1 Overview

### 11.3.3.6 India PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

#### 11.3.3.6.1 India PCR Technologies Market Breakdown by Technology

#### 11.3.3.6.2 India PCR Technologies Market Breakdown by Offerings

##### 11.3.3.6.2.1 India PCR Technologies Market Breakdown by Instruments

##### 11.3.3.6.2.2 India PCR Technologies Market Breakdown by Reagents And

#### Consumables

##### 11.3.3.6.2.2.1 India PCR Technologies Market Breakdown by Vial Size

#### 11.3.3.6.3 India PCR Technologies Market Breakdown by Application

#### 11.3.3.6.4 India PCR Technologies Market Breakdown by End User

### 11.3.3.7 Australia: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)

#### 11.3.3.7.1 Overview

### 11.3.3.8 Australia PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

#### 11.3.3.8.1 Australia PCR Technologies Market Breakdown by Technology

#### 11.3.3.8.2 Australia PCR Technologies Market Breakdown by Offerings

##### 11.3.3.8.2.1 Australia PCR Technologies Market Breakdown by Instruments

#### 11.3.3.8.2.2 Australia PCR Technologies Market Breakdown by Reagents And Consumables

##### 11.3.3.8.2.2.1 Australia PCR Technologies Market Breakdown by Vial Size

#### 11.3.3.8.3 Australia PCR Technologies Market Breakdown by Application

#### 11.3.3.8.4 Australia PCR Technologies Market Breakdown by End User

### 11.3.3.9 South Korea: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)

#### 11.3.3.9.1 Overview

### 11.3.3.10 South Korea PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

#### 11.3.3.10.1 South Korea PCR Technologies Market Breakdown by Technology

#### 11.3.3.10.2 South Korea PCR Technologies Market Breakdown by Offerings

##### 11.3.3.10.2.1 South Korea PCR Technologies Market Breakdown by Instruments

#### 11.3.3.10.2.2 South Korea PCR Technologies Market Breakdown by Reagents And Consumables

##### 11.3.3.10.2.2.1 South Korea PCR Technologies Market Breakdown by Vial Size

#### 11.3.3.10.3 South Korea PCR Technologies Market Breakdown by Application

#### 11.3.3.10.4 South Korea PCR Technologies Market Breakdown by End User

### 11.3.3.11 Rest of APAC: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)

#### 11.3.3.11.1 Overview

### 11.3.3.12 Rest of APAC PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

#### 11.3.3.12.1 Rest of APAC PCR Technologies Market Breakdown by Technology

#### 11.3.3.12.2 Rest of APAC PCR Technologies Market Breakdown by Offerings

##### 11.3.3.12.2.1 Rest of APAC PCR Technologies Market Breakdown by Instruments

#### 11.3.3.12.2.2 Rest of APAC PCR Technologies Market Breakdown by Reagents And Consumables

##### 11.3.3.12.2.2.1 Rest of APAC PCR Technologies Market Breakdown by Vial Size

#### 11.3.3.12.3 Rest of APAC PCR Technologies Market Breakdown by Application

#### 11.3.3.12.4 Rest of APAC PCR Technologies Market Breakdown by End User

### 11.4 Middle East and Africa: PCR Technologies Market

#### 11.4.1 Overview

## 11.4.2 Middle East and Africa PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

### 11.4.2.1 Middle East and Africa PCR Technologies Market Revenue and Forecast and Analysis – By Technology

### 11.4.2.2 Middle East and Africa PCR Technologies Market Revenue and Forecast and Analysis – By Offerings

#### 11.4.2.2.1 Middle East and Africa PCR Technologies Market Revenue and Forecast and Analysis – By Instruments

#### 11.4.2.2.2 Middle East and Africa PCR Technologies Market Revenue and Forecast and Analysis – By Reagents And Consumables

##### 11.4.2.2.2.1 Middle East and Africa PCR Technologies Market Revenue and Forecast and Analysis – By Vial Size

### 11.4.2.3 Middle East and Africa PCR Technologies Market Revenue and Forecast and Analysis – By Application

### 11.4.2.4 Middle East and Africa PCR Technologies Market Revenue and Forecast and Analysis – By End User

## 11.4.3 Middle East and Africa PCR Technologies Market Revenue and Forecast and Analysis – By Country

### 11.4.3.1 Saudi Arabia: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)

#### 11.4.3.1.1 Overview

### 11.4.3.2 Saudi Arabia PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

#### 11.4.3.2.1 Saudi Arabia PCR Technologies Market Breakdown by Technology

#### 11.4.3.2.2 Saudi Arabia PCR Technologies Market Breakdown by Offerings

##### 11.4.3.2.2.1 Saudi Arabia PCR Technologies Market Breakdown by Instruments

##### 11.4.3.2.2.2 Saudi Arabia PCR Technologies Market Breakdown by Reagents And Consumables

###### 11.4.3.2.2.2.1 Saudi Arabia PCR Technologies Market Breakdown by Vial Size

#### 11.4.3.2.3 Saudi Arabia PCR Technologies Market Breakdown by Application

#### 11.4.3.2.4 Saudi Arabia PCR Technologies Market Breakdown by End User

### 11.4.3.3 South Africa: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)

#### 11.4.3.3.1 Overview

### 11.4.3.4 South Africa PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

#### 11.4.3.4.1 South Africa PCR Technologies Market Breakdown by Technology

#### 11.4.3.4.2 South Africa PCR Technologies Market Breakdown by Offerings

##### 11.4.3.4.2.1 South Africa PCR Technologies Market Breakdown by Instruments



#### 11.4.3.4.2.2 South Africa PCR Technologies Market Breakdown by Reagents And Consumables

##### 11.4.3.4.2.2.1 South Africa PCR Technologies Market Breakdown by Vial Size

##### 11.4.3.4.3 South Africa PCR Technologies Market Breakdown by Application

##### 11.4.3.4.4 South Africa PCR Technologies Market Breakdown by End User

#### 11.4.3.5 United Arab Emirates: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)

##### 11.4.3.5.1 Overview

#### 11.4.3.6 United Arab Emirates PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

##### 11.4.3.6.1 United Arab Emirates PCR Technologies Market Breakdown by Technology

##### 11.4.3.6.2 United Arab Emirates PCR Technologies Market Breakdown by Offerings

##### 11.4.3.6.2.1 United Arab Emirates PCR Technologies Market Breakdown by Instruments

##### 11.4.3.6.2.2 United Arab Emirates PCR Technologies Market Breakdown by Reagents And Consumables

##### 11.4.3.6.2.2.1 United Arab Emirates PCR Technologies Market Breakdown by Vial Size

##### 11.4.3.6.3 United Arab Emirates PCR Technologies Market Breakdown by Application

##### 11.4.3.6.4 United Arab Emirates PCR Technologies Market Breakdown by End User

#### 11.4.3.7 Rest of Middle East and Africa: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)

##### 11.4.3.7.1 Overview

#### 11.4.3.8 Rest of Middle East and Africa PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

##### 11.4.3.8.1 Rest of Middle East and Africa PCR Technologies Market Breakdown by Technology

##### 11.4.3.8.2 Rest of Middle East and Africa PCR Technologies Market Breakdown by Offerings

##### 11.4.3.8.2.1 Rest of Middle East and Africa PCR Technologies Market Breakdown by Instruments

##### 11.4.3.8.2.2 Rest of Middle East and Africa PCR Technologies Market Breakdown by Reagents And Consumables

##### 11.4.3.8.2.2.1 Rest of Middle East and Africa PCR Technologies Market Breakdown by Vial Size

##### 11.4.3.8.3 Rest of Middle East and Africa PCR Technologies Market Breakdown by Application

11.4.3.8.4 Rest of Middle East and Africa PCR Technologies Market Breakdown by End User

11.5 South and Central America: PCR Technologies Market

11.5.1 Overview

11.5.2 South and Central America PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

11.5.2.1 South and Central America PCR Technologies Market Revenue and Forecast and Analysis – By Technology

11.5.2.2 South and Central America PCR Technologies Market Revenue and Forecast and Analysis – By Offerings

11.5.2.2.1 South and Central America PCR Technologies Market Revenue and Forecast and Analysis – By Instruments

11.5.2.2.2 South and Central America PCR Technologies Market Revenue and Forecast and Analysis – By Reagents And Consumables

11.5.2.2.2.1 South and Central America PCR Technologies Market Revenue and Forecast and Analysis – By Vial Size

11.5.2.3 South and Central America PCR Technologies Market Revenue and Forecast and Analysis – By Application

11.5.2.4 South and Central America PCR Technologies Market Revenue and Forecast and Analysis – By End User

11.5.3 South and Central America PCR Technologies Market Revenue and Forecast and Analysis – By Country

11.5.3.1 Brazil: PCR Technologies Market – Revenue and Forecast to 2030 (US\$ Million)

11.5.3.1.1 Overview

11.5.3.2 Brazil PCR Technologies Market Revenue and Forecast to 2030 (US\$ Mn)

11.5.3.2.1 Brazil PCR Technologies M

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