

dPCR and qPCR Market Size and Forecasts (2020 - 2030), Global and Regional Share, Trends, and Growth Opportunity Analysis By Treatment [Quantitative PCR (qPCR) and Digital PCR (dPCR)], Product (Reagents & Consumables, Instruments, and Software & Services), Application (Research Application, Clinical Application, and Forensic Application), End User (Hospitals and Diagnostic Centers, Pharmaceutical and Biotechnology Companies, Research Laboratories and Academic Institutes, Forensic Laboratories, and Clinical Research Organizations), and Geography (North America, Europe, Asia Pacific, Middle East & Africa, and South & Central America)

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Abstracts

The dPCR and qPCR market size is expected to grow from US\$ 8.976 billion in 2022 to US\$ 18.230 billion by 2030; it is estimated to record a CAGR of 9.3% during 2022-2030.

The dPCR and qPCR market growth is attributed to the increasing incidence of genetic and infectious diseases, rising investments and funds for gene synthesis, and technological advancements in PCR technologies.

In recent years, molecular methods such as PCR have evolved as diagnostic technology. The method enables healthcare professionals to diagnose a wide range of infectious diseases accurately and is considered an indispensable research and

diagnostic tool. PCR allows the generation of millions of DNA copies from one single strand of DNA. It also allows early diagnosis of disease and hence plays an essential role in disease control. PCR gives reproducible results that are comparable between different laboratories and hence are accepted worldwide. As PCR techniques are being widely accepted and utilized in emerging countries. According to the World Health Organization Report on the Establishment of PCR Laboratory in Developing Countries 2016, WHO is providing necessary technical assistance to establish PCR laboratories in all 11 member states of the WHO South East Asia countries. The laboratories will help in providing high-quality medical care. These PCR laboratories have adopted different PCR technologies such as Reverse transcriptase PCR (RT-PCR), Multiplex PCR, Real-time PCR, In-situ PCR, Digital PCR (dPCR), and others depending on their need. Due to its simple, rapid, and highly specific screening of diseases and its increasing application in clinical microbiology, virology, parasitology, biotechnology, and allied fields, the dPCR and qPCR market in developing countries is expected to experience lucrative opportunities during the forecast period.

Droplet Digital PCR (ddPCR) is a new technique for performing digital PCR. It utilizes water-oil emulsion droplet technology. A sample to be tested is fractionated into around 20,000 droplets, and then amplification of the target DNA strand is carried out in each droplet. The ddPCR then digitally measures the nucleic acid targets in the individual droplet. Thus, the technique gives high precision and absolute quantification of target DNA molecules and enables wide application in diagnosis and research. In qPCR, DNA quantification is obtained from the cycle threshold (CT). External calibrators are required, and imperfect amplification affects absolute quantitation. Droplet Digital PCR (ddPCR) directly counts the target DNA without the calibration curve. Thus, with the advent of ddPCR, scientists will be able to explore complex genetic landscapes, discover and validate new disease associations, and define a new era of molecular diagnostics. Thus, the development of ddPCR would become a major trend in the dPCR and qPCR market in the future.

Application-Based Insights

Based on application, the dPCR and qPCR market is segmented into research application, clinical application, and forensic application. In 2022, the clinical application segment held the largest share of the market and is anticipated to register the highest CAGR during 2022–2030. Molecular biology techniques have revolutionized disease diagnosis and are now a crucial part of laboratory diagnostics. The dPCR and qPCR techniques are now being used in the diagnosis of many diseases, including diabetes, infectious diseases, cancer, and others. For instance, real-time PCR technology RIDA

GENE kits are developed for the diagnosis of gastrointestinal infections, hospital-acquired infections (HAI), respiratory infections, sexually transmitted infections, and other parameters. As these molecular methods allow early, sensitive, and specific diagnosis, the clinical application segment is expected to witness growth over the forecast period.

Real-time PCR technologies have been used to detect mutation in genes, which helps in the diagnosis of cancer. dPCR also enables precise detection of tumor markers in cell-free DNA (cfDNA) samples like sputum, urine, cerebrospinal fluid, plasma, and others. dPCR is more effective in detecting single-nucleotide polymorphism among the wild-type sequences. For example, dPCR is commonly used to detect mutation in epidermal growth factor receptor (EGFR), KRAS, and ESR1.

Furthermore, technological advancements are offering molecular markers for diagnosing and treating cancer. In April 2023, Thermo Fisher Scientific introduced 37 CE-IVD-marked real-time PCR assay kits for its QuantStudio Dx series of instruments to detect numerous infectious diseases.

End User-Based Insights

Based on end user, the dPCR and qPCR market is segmented into hospitals and diagnostic centers, pharmaceutical and biotechnology companies, research laboratories and academic institutes, forensic laboratories, and clinical research organizations. In 2022, the hospitals and diagnostic centers segment held the largest share of the market and is anticipated to register the highest CAGR during 2022–2030.

Hospitals and diagnostic centers contribute a significant market share to the dPCR and qPCR market. Hospitals are the primary centers for a patient seeking highly advanced treatment under the guidance of much-trained personnel. dPCR and qPCR offer advantages such as high sensitivity and specificity, allowing early and accurate detection of pathogens, including bacteria, viruses, and fungi.

In addition, hospitals 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. Moreover, the continued expansion of healthcare infrastructure across emerging countries, the high incidences of infectious diseases, and the growing number of hospital admissions has created a need for rapid and sensitive diagnostic tools. Additionally, growing demand for early and efficient disease diagnosis and

treatment, the increasing number of dPCR product launches for diagnostic applications, the advantages offered by dPCR in disease diagnosis (as compared to other PCR technologies), and growing awareness among public associated with the benefits offered by both these technologies for clinical and disease diagnosis fuel the market growth.

Furthermore, diagnostic laboratories are well-equipped with hi-tech equipment that enables easy workflow and management of various samples to be tested. For instance, Thermo Fisher Scientific, Inc. offers multiple variants of its PCR, including QuantStudio 5, QuantStudio 6 Flex, QuantStudio 7, QuantStudio 12k, QuantStudio 3D, and QuantStudio Absolute Q AutoRun dPCR Suite. Similarly, several companies, such as 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.

Centers for Disease Control and Prevention, Medical Research Future Fund, and the World Health Organization (WHO) are among the primary and secondary sources referred to while preparing the dPCR and qPCR market report.

Contents

1. INTRODUCTION

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

2. EXECUTIVE SUMMARY

- 2.1 Key Insights

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. DPCR AND QPCR MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
 - 4.2.1 Global PEST Analysis

5. DPCR AND QPCR MARKET - KEY INDUSTRY DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Increasing Incidence of Genetic and Infectious Diseases
 - 5.1.2 Rising Investments and Funds for Gene Synthesis
 - 5.1.3 Technological Advancements in PCR Technologies
- 5.2 Market Restraints
 - 5.2.1 High Costs of PCR Systems
 - 5.2.2 Technical Limitations Associated with qPCR
- 5.3 Market Opportunities
 - 5.3.1 Growing Adoption of PCR Methods in Emerging Countries
- 5.4 Future Trends
 - 5.4.1 Development of Droplet Digital PCR
- 5.5 Impact Analysis:

6. DPCR AND QPCR MARKET - GLOBAL MARKET ANALYSIS

6.1 dPCR and qPCR Market Revenue (US\$ Mn), 2022 – 2030

7. GLOBAL DPCR AND QPCR MARKET – REVENUE AND FORECAST TO 2030 – BY TREATMENT

7.1 Overview

7.2 dPCR and qPCR Market Revenue Share, by Treatment, 2022 & 2030 (%)

7.3 Quantitative PCR

7.3.1 Overview

7.3.2 Quantitative PCR: dPCR and qPCR Market – Revenue and Forecast to 2030 (US\$ Million)

7.4 Digital PCR

7.4.1 Overview

7.4.2 Digital PCR: dPCR and qPCR Market – Revenue and Forecast to 2030 (US\$ Million)

8. GLOBAL DPCR AND QPCR MARKET – REVENUE AND FORECAST TO 2030 – BY PRODUCT

8.1 Overview

8.2 dPCR and qPCR Market Revenue Share, by Product, 2022 & 2030 (%)

8.3 Reagents & Consumables

8.3.1 Overview

8.3.2 Reagents & Consumables: dPCR and qPCR Market – Revenue and Forecast to 2030 (US\$ Million)

8.4 Instruments

8.4.1 Overview

8.4.2 Instruments: dPCR and qPCR Market – Revenue and Forecast to 2030 (US\$ Million)

8.5 Software & Services

8.5.1 Overview

8.5.2 Software & Services: dPCR and qPCR Market – Revenue and Forecast to 2030 (US\$ Million)

9. GLOBAL DPCR AND QPCR MARKET – REVENUE AND FORECAST TO 2030 – BY APPLICATION

9.1 Overview

9.2 dPCR and qPCR Market Revenue Share, by Application, 2022 & 2030 (%)

9.3 Research Application

9.3.1 Overview

9.3.2 Research Application: dPCR and qPCR Market – Revenue and Forecast to 2030 (US\$ Million)

9.4 Clinical Application

9.4.1 Overview

9.4.2 Clinical Application: dPCR and qPCR Market – Revenue and Forecast to 2030 (US\$ Million)

9.4.2.1 dPCR and qPCR Market, by Clinical Application, 2020–2030 (US\$ Million)

9.5 Forensic Application

9.5.1 Overview

9.5.2 Forensic Application: dPCR and qPCR Market – Revenue and Forecast to 2030 (US\$ Million)

10. GLOBAL DPCR AND QPCR MARKET – REVENUE AND FORECAST TO 2030 – BY END-USER

10.1 Overview

10.2 dPCR and qPCR 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: dPCR and qPCR Market – Revenue and Forecast to 2030 (US\$ Million)

10.4 Pharmaceutical and Biotechnology Companies

10.4.1 Overview

10.4.2 Pharmaceutical and Biotechnology Companies: dPCR and qPCR Market – Revenue and Forecast to 2030 (US\$ Million)

10.5 Research Laboratories and Academic Institutes

10.5.1 Overview

10.5.2 Research Laboratories and Academic Institutes: dPCR and qPCR Market – Revenue and Forecast to 2030 (US\$ Million)

10.6 Forensic Laboratories

10.6.1 Overview

10.6.2 Forensic Laboratories: dPCR and qPCR Market – Revenue and Forecast to 2030 (US\$ Million)

10.7 Clinical Research Organizations

10.7.1 Overview

10.7.2 Clinical Research Organizations: dPCR and qPCR Market – Revenue and

Forecast to 2030 (US\$ Million)

11. DPCR AND QPCR MARKET - GEOGRAPHICAL ANALYSIS

11.1 North America dPCR and qPCR Market, Revenue and Forecast To 2030

11.1.1 Overview

11.1.2 North America dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.1.3 North America: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.1.4 North America: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.1.5 North America: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.1.5.1 North America: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.1.6 North America: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.1.6.1 North America dPCR and qPCR Market, by Country

11.1.6.2 US

11.1.6.2.1 US dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.1.6.2.2 US: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.1.6.2.3 US: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.1.6.2.4 US: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.1.6.2.4.1 US: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.1.6.2.5 US: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.1.6.3 Canada

11.1.6.3.1 Canada dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.1.6.3.2 Canada: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.1.6.3.3 Canada: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.1.6.3.4 Canada: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.1.6.3.4.1 Canada: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.1.6.3.5 Canada: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.1.6.4 Mexico

11.1.6.4.1 Mexico dPCR and qPCR Market Revenue and Forecast to 2030 (US\$

Mn)

11.1.6.4.2 Mexico: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.1.6.4.3 Mexico: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.1.6.4.4 Mexico: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.1.6.4.4.1 Mexico: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.1.6.4.5 Mexico: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.2 Europe dPCR and qPCR Market, Revenue and Forecast to 2030

11.2.1 Overview

11.2.2 Europe dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.2.3 Europe: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.2.4 Europe: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.2.5 Europe: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.2.5.1 Europe: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.2.6 Europe: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.2.6.1 Europe dPCR and qPCR Market, by Country

11.2.6.2 UK

11.2.6.2.1 UK dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.2.6.2.2 UK: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.2.6.2.3 UK: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.2.6.2.4 UK: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.2.6.2.4.1 UK: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.2.6.2.5 UK: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.2.6.3 Germany

11.2.6.3.1 Germany dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.2.6.3.2 Germany: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.2.6.3.3 Germany: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.2.6.3.4 Germany: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.2.6.3.4.1 Germany: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.2.6.3.5 Germany: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.2.6.4 France

11.2.6.4.1 France dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.2.6.4.2 France: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.2.6.4.3 France: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.2.6.4.4 France: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.2.6.4.4.1 France: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.2.6.4.5 France: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.2.6.5 Italy

11.2.6.5.1 Italy dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.2.6.5.2 Italy: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.2.6.5.3 Italy: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.2.6.5.4 Italy: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.2.6.5.4.1 Italy: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.2.6.5.5 Italy: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.2.6.6 Spain

11.2.6.6.1 Spain dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.2.6.6.2 Spain: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.2.6.6.3 Spain: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.2.6.6.4 Spain: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.2.6.6.4.1 Spain: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.2.6.6.5 Spain: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.2.6.7 Rest of Europe

11.2.6.7.1 Rest of Europe dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.2.6.7.2 Rest of Europe: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.2.6.7.3 Rest of Europe: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.2.6.7.4 Rest of Europe: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.2.6.7.4.1 Rest of Europe: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.2.6.7.5 Rest of Europe: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.3 Asia Pacific dPCR and qPCR Market, Revenue and Forecast to 2030

- 11.3.1 Overview
- 11.3.2 Asia Pacific dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)
- 11.3.3 Asia Pacific: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)
- 11.3.4 Asia Pacific: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)
- 11.3.5 Asia Pacific: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)
 - 11.3.5.1 Asia Pacific: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)
- 11.3.6 Asia Pacific: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)
 - 11.3.6.1 Asia Pacific dPCR and qPCR Market, by Country
 - 11.3.6.2 China
 - 11.3.6.2.1 China dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)
 - 11.3.6.2.2 China: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)
 - 11.3.6.2.3 China: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)
 - 11.3.6.2.4 China: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)
 - 11.3.6.2.4.1 China: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)
 - 11.3.6.2.5 China: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)
 - 11.3.6.3 Japan
 - 11.3.6.3.1 Japan dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)
 - 11.3.6.3.2 Japan: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)
 - 11.3.6.3.3 Japan: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)
 - 11.3.6.3.4 Japan: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)
 - 11.3.6.3.4.1 Japan: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)
 - 11.3.6.3.5 Japan: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)
 - 11.3.6.4 India
 - 11.3.6.4.1 India dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)
 - 11.3.6.4.2 India: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)
 - 11.3.6.4.3 India: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)
 - 11.3.6.4.4 India: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)
 - 11.3.6.4.4.1 India: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)
 - 11.3.6.4.5 India: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)
 - 11.3.6.5 Australia
 - 11.3.6.5.1 Australia dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)
 - 11.3.6.5.2 Australia: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)
 - 11.3.6.5.3 Australia: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.3.6.5.4 Australia: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.3.6.5.4.1 Australia: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.3.6.5.5 Australia: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.3.6.6 South Korea

11.3.6.6.1 South Korea dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.3.6.6.2 South Korea: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.3.6.6.3 South Korea: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.3.6.6.4 South Korea: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.3.6.6.4.1 South Korea: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.3.6.6.5 South Korea: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.3.6.7 Rest of Asia Pacific

11.3.6.7.1 Rest of Asia Pacific dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.3.6.7.2 Rest of Asia Pacific: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.3.6.7.3 Rest of Asia Pacific: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.3.6.7.4 Rest of Asia Pacific: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.3.6.7.4.1 Rest of Asia Pacific: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.3.6.7.5 Rest of Asia Pacific: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.4 Middle East & Africa dPCR and qPCR Market, Revenue and Forecast to 2030

11.4.1 Overview

11.4.2 Middle East & Africa dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.4.3 Middle East & Africa: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.4.4 Middle East & Africa: dPCR and qPCR Market, by Product, 2020–2030 (US\$

Million)

11.4.5 Middle East & Africa: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.4.5.1 Middle East & Africa: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.4.6 Middle East & Africa: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.4.6.1 Middle East & Africa dPCR and qPCR Market, by Country

11.4.6.2 Saudi Arabia

11.4.6.2.1 Saudi Arabia dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.4.6.2.2 Saudi Arabia: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.4.6.2.3 Saudi Arabia: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.4.6.2.4 Saudi Arabia: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.4.6.2.4.1 Saudi Arabia: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.4.6.2.5 Saudi Arabia: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.4.6.3 UAE

11.4.6.3.1 UAE dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.4.6.3.2 UAE: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.4.6.3.3 UAE: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.4.6.3.4 UAE: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.4.6.3.4.1 UAE: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.4.6.3.5 UAE: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.4.6.4 South Africa

11.4.6.4.1 South Africa dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.4.6.4.2 South Africa: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.4.6.4.3 South Africa: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.4.6.4.4 South Africa: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.4.6.4.4.1 South Africa: dPCR and qPCR Market, for Clinical Application by

Application, 2020 - 2030 (US\$ Million)

11.4.6.4.5 South Africa: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.4.6.5 Rest of Middle East & Africa

11.4.6.5.1 Rest of Middle East & Africa dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.4.6.5.2 Rest of Middle East & Africa: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.4.6.5.3 Rest of Middle East & Africa: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.4.6.5.4 Rest of Middle East & Africa: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.4.6.5.4.1 Rest of Middle East & Africa: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.4.6.5.5 Rest of Middle East & Africa: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.5 South & Central America dPCR and qPCR Market, Revenue and Forecast to 2030

11.5.1 Overview

11.5.2 South & Central America dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.5.3 South & Central America: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.5.4 South & Central America: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.5.5 South & Central America: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.5.5.1 South & Central America: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.5.6 South & Central America: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.5.6.1 South & Central America dPCR and qPCR Market, by Country

11.5.6.2 Brazil

11.5.6.2.1 Brazil dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.5.6.2.2 Brazil: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.5.6.2.3 Brazil: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.5.6.2.4 Brazil: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.5.6.2.4.1 Brazil: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.5.6.2.5 Brazil: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.5.6.3 Argentina

11.5.6.3.1 Argentina dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.5.6.3.2 Argentina: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.5.6.3.3 Argentina: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.5.6.3.4 Argentina: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.5.6.3.4.1 Argentina: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.5.6.3.5 Argentina: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

11.5.6.4 Rest of South & Central America

11.5.6.4.1 Rest of South & Central America dPCR and qPCR Market Revenue and Forecast to 2030 (US\$ Mn)

11.5.6.4.2 Rest of South & Central America: dPCR and qPCR Market, by Treatment, 2020–2030 (US\$ Million)

11.5.6.4.3 Rest of South & Central America: dPCR and qPCR Market, by Product, 2020–2030 (US\$ Million)

11.5.6.4.4 Rest of South & Central America: dPCR and qPCR Market, by Application, 2020–2030 (US\$ Million)

11.5.6.4.4.1 Rest of South & Central America: dPCR and qPCR Market, for Clinical Application by Application, 2020 - 2030 (US\$ Million)

11.5.6.4.5 Rest of South & Central America: dPCR and qPCR Market, by End-User, 2020–2030 (US\$ Million)

12. DPCR AND QPCR MARKET–INDUSTRY LANDSCAPE

12.1 Overview

12.2 Growth Strategies in dPCR and qPCR Market

12.3 Organic Growth Strategies

12.3.1 Overview

12.4 Inorganic Growth Strategies

12.4.1 Overview

13. COMPANY PROFILES

13.1 Abbott Laboratories

13.1.1 Key Facts

- 13.1.2 Business Description
- 13.1.3 Products and Services
- 13.1.4 Financial Overview
- 13.1.5 SWOT Analysis
- 13.1.6 Key Developments
- 13.2 Thermo Fisher Scientific Inc
 - 13.2.1 Key Facts
 - 13.2.2 Business Description
 - 13.2.3 Products and Services
 - 13.2.4 Financial Overview
 - 13.2.5 SWOT Analysis
 - 13.2.6 Key Developments
- 13.3 Takara Bio Inc
 - 13.3.1 Key Facts
 - 13.3.2 Business Description
 - 13.3.3 Products and Services
 - 13.3.4 Financial Overview
 - 13.3.5 SWOT Analysis
 - 13.3.6 Key Developments
- 13.4 Qiagen NV
 - 13.4.1 Key Facts
 - 13.4.2 Business Description
 - 13.4.3 Products and Services
 - 13.4.4 Financial Overview
 - 13.4.5 SWOT Analysis
 - 13.4.6 Key Developments
- 13.5 Standard BioTools Inc
 - 13.5.1 Key Facts
 - 13.5.2 Business Description
 - 13.5.3 Products and Services
 - 13.5.4 Financial Overview
 - 13.5.5 SWOT Analysis
 - 13.5.6 Key Developments
- 13.6 Lepu Medical Technology Beijing Co Ltd
 - 13.6.1 Key Facts
 - 13.6.2 Business Description
 - 13.6.3 Products and Services
 - 13.6.4 Financial Overview
 - 13.6.5 SWOT Analysis

- 13.6.6 Key Developments
- 13.7 F. Hoffmann-La Roche Ltd
 - 13.7.1 Key Facts
 - 13.7.2 Business Description
 - 13.7.3 Products and Services
 - 13.7.4 Financial Overview
 - 13.7.5 SWOT Analysis
 - 13.7.6 Key Developments
- 13.8 Bio-Rad Laboratories Inc
 - 13.8.1 Key Facts
 - 13.8.2 Business Description
 - 13.8.3 Products and Services
 - 13.8.4 Financial Overview
 - 13.8.5 SWOT Analysis
 - 13.8.6 Key Developments
- 13.9 Agilent Technologies Inc
 - 13.9.1 Key Facts
 - 13.9.2 Business Description
 - 13.9.3 Products and Services
 - 13.9.4 Financial Overview
 - 13.9.5 SWOT Analysis
 - 13.9.6 Key Developments
- 13.10 Genome Diagnostics Pvt Ltd
 - 13.10.1 Key Facts
 - 13.10.2 Business Description
 - 13.10.3 Products and Services
 - 13.10.4 SWOT Analysis
 - 13.10.5 Key Developments

14. APPENDIX

- 14.1 About Us
- 14.2 Glossary of Terms

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