

**Digital PCR Market / Digital PCR (dPCR) and Real-time PCR (qPCR) Market Size, Share & Trends by Offering (Product (Reagents & Consumables, Instrument), Software, Services), Application (Clinical (infectious, Oncology), Research, Forensic, Environmental) - Global Forecast to 2029**

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**Report description:**

The global digital PCR (dPCR) and real-time PCR (qPCR) market is projected to reach USD 14.8 billion by 2029 from USD 10.0 billion in 2024, at a CAGR of 8.1% during the forecast period of 2024 to 2029. The growth of the Digital PCR (dPCR) and real-time PCR (qPCR) market has been significantly driven by its increasing adoption among hospital and diagnostics laboratories for disease diagnosis application, increasing R&D investment by key players for the development and launch of innovative product and continuous advancements in PCR technologies. However, high instrument costs especially that of dPCR and the technical limitations of PCR are restraining market growth.

"The infectious disease testing segment under clinical application segment accounted for the largest share by application in 2023."

In 2023, the infectious disease testing segment under clinical application segment accounted for the largest share by application in the global digital PCR (dPCR) and real-time PCR (qPCR) market. qPCR has revolutionized infectious disease diagnostics by providing rapid, sensitive, and specific detection of pathogens. It is useful in identifying bacteria, viruses, fungi, and parasites, enabling early diagnosis and effective treatment. During the past decade, clinical laboratories worldwide have been increasing using qPCR for pathogen testing and the diagnosis of infectious and sexually transmitted diseases. Advanced molecular diagnosis tools such as spectroscopy and liquid chromatography are being integrated with qPCR workflows to offer genomic lab technicians the capability of rapid and accurate pathogen detection.

"The US has continued to dominate the digital PCR (dPCR) and real-time PCR (qPCR) market during the forecast period of 2024-2029."

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The US is the world's largest biopharmaceutical market and a leader in biopharmaceutical research/investments. The demand for digital PCR (dPCR) and real-time PCR (qPCR) products is expected to grow in the coming years, driven by the rising patient population suffering from infectious disease, increasing focus on biopharmaceuticals, and the need for safe & high-quality products in the healthcare industry. The nation has a highly advanced market in terms of R&D due to the presence of better infrastructure, government support, and private funding. This helps develop innovative and advanced technologies for research. Pharmaceutical companies in the US are actively participating in the development of novel reagent and test assays and utilizing it with Digital PCR (dPCR) and real-time PCR (qPCR), which offers less turnaround time, and is energy-efficient also provide accurate results, with in a span of time. These factors are supporting the growth of the Digital PCR (dPCR) and real-time PCR (qPCR) market in the country.

The primary interviews conducted for this report can be categorized as follows:

-□By Respondent: Supply Side- 70% and Demand Side 30%

-□By Designation: Managers - 45%, CXO & Directors - 30%, and Executives - 25%

-□By Region: North America -40%, Europe -25%, Asia-Pacific -25%, Latin America -5% and Middle East & Africa- 5%

List of Companies Profiled in the Report:

Danaher Corporation (US)

F. Hoffmann-La Roche Ltd (Switzerland)

Thermo Fisher Scientific Inc. (US)

Merck KGaA (Germany)

Qiagen N.V. (Germany)

Abbott Laboratories (US)

Biomerieux (France)

Becton, Dickinson and Company (US)

Agilent Technologies, Inc. (US)

Eppendorf AG (Germany)

Bio-Rad Laboratories, Inc. (US)

Takara Bio Inc. (Japan)

Promega Corporation (US)

Meridian Bioscience, Inc. (US)

ENDRESS+HAUSER (Switzerland)

QuidelOrtho Corporation (US)

Lepu Medical Technology Beijing Co Ltd. (China)

Sysmax Corporation (Japan)

Enzo Biochem, Inc. (US)

Biocartis (Belgium)

Stilla Technologies (France)

Antylia Scientific (US)

Bioneer Corporation (South Korea)

Standard BioTools (US)

Seegene Inc. (South Korea)

GenScript (US)

LGC BioResearch Technologies (England)

Quantabio (US)

Randox Laboratories Ltd. (UK)

New England Biolabs. (US)

PCR Biosystems (UK)

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## Research Coverage:

This research report categorizes the digital PCR (dPCR) and real-time PCR (qPCR) market by offering ((QPCR product (QPCR Reagents and Consumables, QPCR Instruments), QPCR Software, and QPCR Services) DPCR Product (QPCR Reagents and Consumables, QPCR Instruments (Droplet Digital PCR, Chip Based Digital PCR, and Beaming Digital PCR), DPCR Software, and DPCR Services)), by applications ((QPCR Application (Clinical Application (Infectious Disease Testing, Oncology Testing, Blood Screening, Transplant Diagnostics, and Other Clinical Application), Research Application (Single Cell Analysis, Stem Cell Research, Gene Expression, and Other Research Application), Forensic Application, Environmental Applications, and Other Application), and (DPCR Application (Clinical Application (Infectious Disease Testing, Oncology Testing, Blood Screening, Transplant Diagnostics, and Other Clinical Application), Research Application (Single Cell Analysis, Stem Cell Research, Gene Expression, and Other Research Application), Forensic Application, Environmental Applications, and Other Application)), by end user ((QPCR End User (Hospitals and Diagnostic Laboratories, Academic and Research Institutes, Pharmaceutical and Biotechnology Companies, CROs and CDMOs, Forensic Laboratories, and Others), and (DPCR End User (Hospitals and Diagnostic Laboratories, Academic and Research Institutes, Pharmaceutical and Biotechnology Companies, CROs and CDMOs, Forensic Laboratories, and Others)) and by region (North America, Europe, Asia Pacific, Latin America, Middle East and Africa). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the Digital PCR (dPCR) and real-time PCR (qPCR) market. A detailed analysis of the key industry players has been done to provide insights into their business overview, products, solutions, key strategies, collaborations, partnerships, and agreements. New launches, collaborations and acquisitions, and recent developments associated with the Digital PCR (dPCR) and real-time PCR (qPCR) market.

## Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall digital PCR (dPCR) and real-time PCR (qPCR) market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

- Analysis of key drivers (Rising incidence and prevalence of target infectious diseases and genetic disorders, Continuous advancements in PCR technologies, The role of PCR in biomarker discovery, Increased use of dPCR and qPCR technologies for point of care (POC) diagnostics), restraints (High device costs associated with dPCR, Technical limitations of qPCR and dPCR, Unfavorable reimbursement scenario for diagnostic companies), opportunities (Growing market penetration in emerging countries, Integration of qPCR and dPCR with Next-Generation Sequencing (NGS), Growing significance of RT-PCR based companion diagnostics in drug development process), and Challenges (Time Consuming methodology involving in sample handling and post-PCR analysis, Lack of accuracy & standardization in protocol, Availability of alternative technologies for disease diagnosis) influencing the growth of the market).
- Product Development/Innovation: Detailed insights on newly launched products of the digital PCR (dPCR) and real-time PCR (qPCR) market
- Market Development: Comprehensive information about lucrative markets - the report analyses the market across varied regions.
- Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the digital PCR (dPCR) and real-time PCR (qPCR) market
- Competitive Assessment: Danaher Corporation (US), F. Hoffmann-La Roche Ltd (Switzerland), Thermo Fisher Scientific Inc. (US), Merck KGaA (Germany), Qiagen N.V. (Germany), Abbott Laboratories (US), Biomerieux (France), Becton, Dickinson and Company (US), Agilent Technologies, Inc. (US), Eppendorf AG (Germany), Bio-Rad Laboratories, Inc. (US), Takara Bio Inc. (Japan), among others in the market.

## Table of Contents:

1 □ INTRODUCTION □ 82

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1.1	STUDY OBJECTIVES	82
1.2	MARKET DEFINITION	82
1.2.1	INCLUSIONS & EXCLUSIONS	83
1.3	MARKETS COVERED	84
1.3.1	MARKET SEGMENTATION	84
1.3.2	REGIONS COVERED	85
FIGURE 1	REGIONAL SEGMENTATION	85
1.3.3	YEARS CONSIDERED	85
1.3.4	CURRENCY CONSIDERED	86
1.4	STAKEHOLDERS	86
1.5	SUMMARY OF CHANGES	86
1.5.1	RECESSION IMPACT	87
2	RESEARCH METHODOLOGY	88
2.1	RESEARCH APPROACH	88
FIGURE 2	RESEARCH DESIGN METHODOLOGY	88
2.1.1	SECONDARY RESEARCH	89
2.1.2	PRIMARY RESEARCH	89
FIGURE 3	DPCR AND QPCR MARKET: BREAKDOWN OF PRIMARIES	90
2.2	MARKET SIZE ESTIMATION	91
FIGURE 4	DIGITAL PCR (DPCR) AND QUANTITATIVE PCR (QPCR) MARKET SIZE ESTIMATION (SUPPLY-SIDE ANALYSIS), 2023	91
2.2.1	GLOBAL MARKET ESTIMATION	91
FIGURE 5	MARKET SIZE ESTIMATION: APPROACH 1 (COMPANY REVENUE ANALYSIS-BASED ESTIMATION), 2023	92
FIGURE 6	ILLUSTRATIVE EXAMPLE OF QIAGEN N.V.: REVENUE SHARE ANALYSIS (2023)	92
2.2.2	INSIGHTS OF PRIMARY EXPERTS	94
FIGURE 7	MARKET SIZE VALIDATION FROM PRIMARY SOURCES	94
2.2.3	SEGMENTAL MARKET SIZE ESTIMATION	95
FIGURE 8	MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH	95
2.3	GROWTH RATE PROJECTIONS	96
FIGURE 9	DPCR AND QPCR MARKET: CAGR PROJECTIONS, 2024-2029	96
TABLE 1	IMPACT ANALYSIS OF SUPPLY-SIDE AND DEMAND-SIDE FACTORS	97
2.4	MARKET BREAKDOWN AND DATA TRIANGULATION	97
FIGURE 10	DATA TRIANGULATION METHODOLOGY	98
2.5	STUDY ASSUMPTIONS	98
2.6	RISK ASSESSMENT	99
TABLE 2	RISK ASSESSMENT ANALYSIS	99
2.7	RESEARCH LIMITATIONS	99
2.8	RECESSION IMPACT ANALYSIS	99
3	EXECUTIVE SUMMARY	101
FIGURE 11	QPCR MARKET, BY OFFERING, 2024 VS. 2029 (USD MILLION)	101
FIGURE 12	DPCR MARKET, BY OFFERING, 2024 VS. 2029 (USD MILLION)	102
FIGURE 13	QPCR MARKET, BY APPLICATION, 2024 VS. 2029 (USD MILLION)	103
FIGURE 14	DPCR MARKET, BY APPLICATION, 2024 VS. 2029 (USD MILLION)	103
FIGURE 15	QPCR MARKET, BY END USER, 2024 VS. 2029 (USD MILLION)	104
FIGURE 16	DPCR MARKET, BY END USER, 2024 VS. 2029 (USD MILLION)	104
FIGURE 17	GEOGRAPHIC SNAPSHOT OF DPCR AND QPCR MARKET	105
4	PREMIUM INSIGHTS	106
4.1	DIGITAL PCR (DPCR) AND QUANTITATIVE/REAL-TIME PCR (QPCR) MARKET OVERVIEW	106

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FIGURE 18 RISING INCIDENCE OF INFECTIOUS DISEASES AND GENETIC DISORDERS TO DRIVE MARKET DURING FORECAST PERIOD 106

4.2 ASIA PACIFIC: QPCR MARKET, BY OFFERING AND COUNTRY (2024) 107

FIGURE 19 QPCR PRODUCTS SEGMENT IN CHINA TO ACCOUNT FOR LARGEST MARKET SHARE IN 2024 107

4.3 GEOGRAPHIC SNAPSHOT OF DPCR AND QPCR MARKET 108

FIGURE 20 EMERGING MARKETS TO GROW AT HIGHER GROWTH RATE DURING FORECAST PERIOD 108

5 MARKET OVERVIEW 109

5.1 INTRODUCTION 109

5.2 MARKET DYNAMICS 109

FIGURE 21 DPCR AND QPCR MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES 109

TABLE 3 DPCR AND QPCR MARKET: IMPACT ANALYSIS 110

5.2.1 DRIVERS 111

5.2.1.1 Rising incidence of infectious diseases and genetic disorders 111

TABLE 4 GLOBAL BURDEN OF HIV INFECTIONS, BY REGION (2022) 111

5.2.1.2 Increasing advancements in PCR technologies 112

TABLE 5 CONVENTIONAL PCR VS. QPCR & DPCR 113

5.2.1.3 Increasing applications of PCR in biomarker discovery 113

5.2.1.4 Growing focus on dPCR and qPCR technologies for POC diagnostics 114

5.2.2 RESTRAINTS 114

5.2.2.1 High cost of dPCR instruments 114

5.2.2.2 Technical limitations associated with qPCR and dPCR 115

5.2.2.3 Unfavorable reimbursements for diagnostic companies 115

5.2.3 OPPORTUNITIES 116

5.2.3.1 High growth potential of emerging markets 116

5.2.3.2 Integration of qPCR and dPCR with NGS 116

5.2.3.3 Growing significance of RT-PCR-based companion diagnostics in drug development 117

5.2.4 CHALLENGES 117

5.2.4.1 Time constraints associated with sample handling 117

5.2.4.2 Inadequate protocols for accuracy & standardization 118

5.2.4.3 Availability of alternative technologies 118

5.3 PORTER'S FIVE FORCES ANALYSIS 119

FIGURE 22 DPCR AND QPCR MARKET: PORTER'S FIVE FORCES ANALYSIS 119

TABLE 6 DPCR AND QPCR MARKET: PORTER'S FIVE FORCES ANALYSIS 119

5.3.1 DEGREE OF COMPETITION 120

5.3.2 BARGAINING POWER OF SUPPLIERS 120

5.3.3 BARGAINING POWER OF BUYERS 120

5.3.4 THREAT OF SUBSTITUTES 120

5.3.5 THREAT OF NEW ENTRANTS 120

5.4 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES 121

FIGURE 23 DPCR AND QPCR MARKET: TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES 121

5.5 TECHNOLOGY ANALYSIS 122

5.5.1 KEY TECHNOLOGIES 122

TABLE 7 KEY TECHNOLOGIES 122

5.5.2 COMPLEMENTARY TECHNOLOGIES 123

TABLE 8 COMPLEMENTARY TECHNOLOGIES 123

5.5.3 ADJACENT TECHNOLOGIES 124

TABLE 9 ADJACENT TECHNOLOGIES 124

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5.6 □ SUPPLY CHAIN ANALYSIS □ 124  
 FIGURE 24 □ SUPPLY CHAIN ANALYSIS □ 124

5.7 □ VALUE CHAIN ANALYSIS □ 125  
 FIGURE 25 □ VALUE CHAIN ANALYSIS-MAXIMUM VALUE ADDED DURING RAW MATERIAL PROCUREMENT AND MANUFACTURING STAGES □ 126

5.8 □ PRICING ANALYSIS □ 127  
 TABLE 10 □ AVERAGE SELLING PRICE OF KEY PLAYERS, BY PRODUCT (2023) □ 127  
 FIGURE 26 □ AVERAGE SELLING PRICE TREND FOR QPCR INSTRUMENTS (2021?2023) □ 128  
 TABLE 11 □ AVERAGE SELLING PRICE, BY PRODUCT, BY REGION (2023) □ 129

5.9 □ ECOSYSTEM ANALYSIS □ 129  
 FIGURE 27 □ DPCR AND QPCR MARKET: ECOSYSTEM ANALYSIS □ 129

5.9.1 □ DPCR AND QPCR MARKET: ROLE OF RAW MATERIAL SUPPLIERS □ 130  
 TABLE 12 □ DPCR AND QPCR MARKET: RAW MATERIAL SUPPLIERS □ 130

5.9.2 □ DPCR AND QPCR MARKET: ROLE OF MANUFACTURERS □ 130  
 TABLE 13 □ DPCR AND QPCR MARKET: ROLE OF MANUFACTURERS □ 131

5.9.3 □ DPCR AND QPCR MARKET: ROLE OF END USERS □ 131  
 TABLE 14 □ DPCR AND QPCR MARKET: ROLE OF END USERS □ 132

5.9.4 □ DPCR AND QPCR MARKET: ROLE OF REGULATORY BODIES □ 132  
 TABLE 15 □ DPCR AND QPCR MARKET: ROLE OF REGULATORY BODIES □ 132

5.10 □ PATENT ANALYSIS □ 133

5.10.1 □ PATENT METHODOLOGY □ 133

5.10.2 □ PATENTS FILED, BY DOCUMENT TYPE, 2014-2024 □ 133  
 TABLE 16 □ PATENTS FILED, 2014-2024 □ 133

5.10.3 □ INNOVATION & PATENT APPLICATIONS □ 133  
 FIGURE 28 □ NUMBER OF PATENTS GRANTED, 2014-2024 □ 133

5.10.4 □ TOP APPLICANTS □ 134  
 FIGURE 29 □ TOP TEN PATENT APPLICANTS, 2014-2024 □ 134  
 TABLE 17 □ TOP 20 PATENT OWNERS IN QPCR AND DPCR MARKET, 2014-2024 □ 134

5.11 □ KEY CONFERENCES AND EVENTS (2024?2025) □ 135  
 TABLE 18 □ DPCR AND QPCR MARKET: LIST OF CONFERENCES AND EVENTS (2024?2025) □ 135

5.12 □ REGULATORY LANDSCAPE □ 136

5.12.1 □ REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS □ 136  
 TABLE 19 □ LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS □ 136

5.12.2 □ REGULATORY SCENARIO □ 138

5.13 □ KEY STAKEHOLDERS AND BUYING CRITERIA □ 141

5.13.1 □ KEY STAKEHOLDERS IN BUYING PROCESS □ 141  
 FIGURE 30 □ INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR DPCR & QPCR PRODUCTS □ 141

5.13.2 □ KEY BUYING CRITERIA AMONG END USERS □ 142  
 FIGURE 31 □ KEY BUYING CRITERIA FOR END USERS □ 142  
 TABLE 20 □ BUYING CRITERIA FOR DPCR AND QPCR PRODUCTS, BY END USER □ 142

5.14 □ INVESTMENT & FUNDING SCENARIO □ 143

5.15 □ TRADE ANALYSIS □ 144  
 TABLE 21 □ IMPORT VALUE, BY COUNTRY, 2019-2023 (USD THOUSANDS) □ 144  
 TABLE 22 □ EXPORT VALUE, BY COUNTRY, 2019-2023 (USD THOUSAND) □ 145  
 TABLE 23 □ IMPORT VOLUME, BY COUNTRY, 2019-2023 (TONS) □ 145  
 TABLE 24 □ EXPORT VOLUME, BY COUNTRY, 2019-2023 (TONS) □ 146

6 □ DPCR AND QPCR MARKET, BY OFFERING □ 147

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## 6.1 INTRODUCTION 148

TABLE 25 QPCR AND QPCR MARKET, BY OFFERING, 2022-2029 (USD MILLION) 148

## 6.2 QPCR OFFERINGS 148

TABLE 26 QPCR OFFERING MARKET, BY TYPE, 2022-2029 (USD MILLION) 148

TABLE 27 QPCR OFFERING MARKET, BY REGION, 2022-2029 (USD MILLION) 149

TABLE 28 NORTH AMERICA: QPCR OFFERINGS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 149

TABLE 29 EUROPE: QPCR OFFERINGS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 149

TABLE 30 ASIA PACIFIC: QPCR OFFERINGS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 150

TABLE 31 LATIN AMERICA: QPCR OFFERINGS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 150

TABLE 32 MIDDLE EAST: QPCR OFFERINGS MARKET, BY REGION, 2022-2029 (USD MILLION) 150

TABLE 33 GCC COUNTRIES: QPCR OFFERINGS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 151

## 6.2.1 QPCR PRODUCTS 151

TABLE 34 QPCR PRODUCTS MARKET, BY TYPE, 2022-2029 (USD MILLION) 151

### 6.2.1.1 qPCR reagents & consumables 151

6.2.1.1.1 Recurring consumption of detection agents to drive market 151

TABLE 35 QPCR REAGENTS & CONSUMABLES MARKET, BY REGION, 2022-2029 (USD MILLION) 152

TABLE 36 NORTH AMERICA: QPCR REAGENTS & CONSUMABLES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 152

TABLE 37 EUROPE: QPCR REAGENTS & CONSUMABLES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 153

TABLE 38 ASIA PACIFIC: QPCR REAGENTS & CONSUMABLES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 153

TABLE 39 LATIN AMERICA: QPCR REAGENTS & CONSUMABLES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 154

TABLE 40 MIDDLE EAST: QPCR REAGENTS & CONSUMABLES MARKET, BY REGION, 2022-2029 (USD MILLION) 154

TABLE 41 GCC COUNTRIES: QPCR REAGENTS & CONSUMABLES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 154

TABLE 42 QPCR REAGENTS & CONSUMABLES MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 155

TABLE 43 QPCR REAGENTS & CONSUMABLES MARKET, BY END USER, 2022-2029 (USD MILLION) 155

### 6.2.1.2 qPCR instruments 156

6.2.1.2.1 Advancements in instrument design to drive market 156

TABLE 44 INSTALLED BASE FOR QPCR INSTRUMENTS, BY PRODUCT, 2019-2023 156

TABLE 45 QPCR INSTRUMENTS MARKET, BY REGION, 2022-2029 (USD MILLION) 156

TABLE 46 NORTH AMERICA: QPCR INSTRUMENTS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 157

TABLE 47 EUROPE: QPCR INSTRUMENTS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 157

TABLE 48 ASIA PACIFIC: QPCR INSTRUMENTS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 157

TABLE 49 LATIN AMERICA: QPCR INSTRUMENTS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 158

TABLE 50 MIDDLE EAST: QPCR INSTRUMENTS MARKET, BY REGION, 2022-2029 (USD MILLION) 158

TABLE 51 GCC COUNTRIES: QPCR INSTRUMENTS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 158

TABLE 52 QPCR INSTRUMENTS MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 159

TABLE 53 QPCR INSTRUMENTS MARKET, BY END USER, 2022-2029 (USD MILLION) 159

## 6.2.2 QPCR SOFTWARE 160

6.2.2.1 Rising demand for specialized analysis software to support market growth 160

TABLE 54 QPCR SOFTWARE MARKET, BY REGION, 2022-2029 (USD MILLION) 160

TABLE 55 NORTH AMERICA: QPCR SOFTWARE MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 160

TABLE 56 EUROPE: QPCR SOFTWARE MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 161

TABLE 57 ASIA PACIFIC: QPCR SOFTWARE MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 161

TABLE 58 LATIN AMERICA: QPCR SOFTWARE MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 161

TABLE 59 MIDDLE EAST: QPCR SOFTWARE MARKET, BY REGION, 2022-2029 (USD MILLION) 162

TABLE 60 GCC COUNTRIES: QPCR SOFTWARE MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 162

TABLE 61 QPCR SOFTWARE MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 162

TABLE 62 QPCR SOFTWARE MARKET, BY END USER, 2022-2029 (USD MILLION) 163

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## 6.2.3 QPCR SERVICES 163

### 6.2.3.1 Growing requirement for maintenance and calibration of PCR instruments to fuel market 163

TABLE 63 QPCR SERVICES MARKET, BY REGION, 2022-2029 (USD MILLION) 164

TABLE 64 NORTH AMERICA: QPCR SERVICES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 164

TABLE 65 EUROPE: QPCR SERVICES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 164

TABLE 66 ASIA PACIFIC: QPCR SERVICES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 165

TABLE 67 LATIN AMERICA: QPCR SERVICES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 165

TABLE 68 MIDDLE EAST: QPCR SERVICES MARKET, BY REGION, 2022-2029 (USD MILLION) 165

TABLE 69 GCC COUNTRIES: QPCR SERVICES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 166

TABLE 70 QPCR SERVICES MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 166

TABLE 71 QPCR SERVICES MARKET, BY END USER, 2022-2029 (USD MILLION) 166

## 6.3 DPCR OFFERINGS 167

TABLE 72 DPCR OFFERINGS MARKET, BY TYPE, 2022-2029 (USD MILLION) 167

TABLE 73 DPCR OFFERINGS MARKET, BY REGION, 2022-2029 (USD MILLION) 167

TABLE 74 NORTH AMERICA: DPCR OFFERINGS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 168

TABLE 75 EUROPE: DPCR OFFERINGS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 168

TABLE 76 ASIA PACIFIC: DPCR OFFERINGS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 168

TABLE 77 LATIN AMERICA: DPCR OFFERINGS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 169

TABLE 78 MIDDLE EAST: DPCR OFFERINGS MARKET, BY REGION, 2022-2029 (USD MILLION) 169

TABLE 79 GCC COUNTRIES: DPCR OFFERINGS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 169

### 6.3.1 DPCR PRODUCTS 170

TABLE 80 DPCR PRODUCTS MARKET, BY TYPE, 2022-2029 (USD MILLION) 170

#### 6.3.1.1 DPCR reagents & consumables 170

##### 6.3.1.1.1 Availability of novel dPCR reagents to propel market 170

TABLE 81 DPCR REAGENTS & CONSUMABLES MARKET, BY REGION, 2022-2029 (USD MILLION) 171

TABLE 82 NORTH AMERICA: DPCR REAGENTS & CONSUMABLES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 171

TABLE 83 EUROPE: DPCR REAGENTS & CONSUMABLES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 171

TABLE 84 ASIA PACIFIC: DPCR REAGENTS & CONSUMABLES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 172

TABLE 85 LATIN AMERICA: DPCR REAGENTS & CONSUMABLES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 172

TABLE 86 MIDDLE EAST: DPCR REAGENTS & CONSUMABLES MARKET, BY REGION, 2022-2029 (USD MILLION) 172

TABLE 87 GCC COUNTRIES: DPCR REAGENTS & CONSUMABLES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 173

TABLE 88 DPCR REAGENTS & CONSUMABLES MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 173

TABLE 89 DPCR REAGENTS & CONSUMABLES MARKET, BY END USER, 2022-2029 (USD MILLION) 174

#### 6.3.1.2 DPCR instruments 174

TABLE 90 DPCR INSTRUMENTS MARKET, BY TYPE, 2022-2029 (USD MILLION) 174

TABLE 91 DPCR INSTRUMENTS MARKET, BY REGION, 2022-2029 (USD MILLION) 175

TABLE 92 NORTH AMERICA: DPCR INSTRUMENTS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 175

TABLE 93 EUROPE: DPCR INSTRUMENTS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 175

TABLE 94 ASIA PACIFIC: DPCR INSTRUMENTS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 176

TABLE 95 LATIN AMERICA: DPCR INSTRUMENTS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 176

TABLE 96 MIDDLE EAST: DPCR INSTRUMENTS MARKET, BY REGION, 2022-2029 (USD MILLION) 176

TABLE 97 GCC COUNTRIES: DPCR INSTRUMENTS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 177

TABLE 98 DPCR INSTRUMENTS MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 177

TABLE 99 DPCR INSTRUMENTS MARKET, BY END USER, 2022-2029 (USD MILLION) 178

##### 6.3.1.2.1 Droplet digital PCR 178

###### 6.3.1.2.1.1 High accuracy and time efficiency benefits to fuel uptake 178

TABLE 100 DROPLET DIGITAL PCR MARKET, BY REGION, 2022-2029 (USD MILLION) 178

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TABLE 101 NORTH AMERICA: DROPLET DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 179

TABLE 102 EUROPE: DROPLET DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 179

TABLE 103 ASIA PACIFIC: DROPLET DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 179

TABLE 104 LATIN AMERICA: DROPLET DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 180

TABLE 105 MIDDLE EAST: DROPLET DIGITAL PCR MARKET, BY REGION, 2022-2029 (USD MILLION) 180

TABLE 106 GCC COUNTRIES: DROPLET DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 180

6.3.1.2.2 Chip-based digital PCR 181

6.3.1.2.2.1 High-throughput capabilities to boost demand 181

TABLE 107 CHIP-BASED DIGITAL PCR MARKET, BY REGION, 2022-2029 (USD MILLION) 181

TABLE 108 NORTH AMERICA: CHIP-BASED DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 181

TABLE 109 EUROPE: CHIP-BASED DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 182

TABLE 110 ASIA PACIFIC: CHIP-BASED DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 182

TABLE 111 LATIN AMERICA: CHIP-BASED DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 183

TABLE 112 MIDDLE EAST: CHIP-BASED DIGITAL PCR MARKET, BY REGION, 2022-2029 (USD MILLION) 183

TABLE 113 GCC COUNTRIES: CHIP-BASED DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 183

6.3.1.2.3 Beaming digital PCR 184

6.3.1.2.3.1 Growing applications in oncology diagnostics to support market growth 184

TABLE 114 BEAMING DIGITAL PCR MARKET, BY REGION, 2022-2029 (USD MILLION) 184

TABLE 115 NORTH AMERICA: BEAMING DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 184

TABLE 116 EUROPE: BEAMING DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 185

TABLE 117 ASIA PACIFIC: BEAMING DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 185

TABLE 118 LATIN AMERICA: BEAMING DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 185

TABLE 119 MIDDLE EAST: BEAMING DIGITAL PCR MARKET, BY REGION, 2022-2029 (USD MILLION) 186

TABLE 120 GCC COUNTRIES: BEAMING DIGITAL PCR MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 186

6.3.2 DPCR SOFTWARE 186

6.3.2.1 Ability to enhance workflow efficiency to drive market 186

TABLE 121 DPCR SOFTWARE MARKET, BY REGION, 2022-2029 (USD MILLION) 187

TABLE 122 NORTH AMERICA: DPCR SOFTWARE MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 187

TABLE 123 EUROPE: DPCR SOFTWARE MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 187

TABLE 124 ASIA PACIFIC: DPCR SOFTWARE MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 188

TABLE 125 LATIN AMERICA: DPCR SOFTWARE MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 188

TABLE 126 MIDDLE EAST: DPCR SOFTWARE MARKET, BY REGION, 2022-2029 (USD MILLION) 188

TABLE 127 GCC COUNTRIES: DPCR SOFTWARE MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 189

TABLE 128 DPCR SOFTWARE MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 189

TABLE 129 DPCR SOFTWARE MARKET, BY END USER, 2022-2029 (USD MILLION) 190

6.3.3 DPCR SERVICES 190

6.3.3.1 Rising need for application-specific guidance to support market growth 190

TABLE 130 DPCR SERVICES MARKET, BY REGION, 2022-2029 (USD MILLION) 191

TABLE 131 NORTH AMERICA: DPCR SERVICES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 191

TABLE 132 EUROPE: DPCR SERVICES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 191

TABLE 133 ASIA PACIFIC: DPCR SERVICES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 192

TABLE 134 LATIN AMERICA: DPCR SERVICES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 192

TABLE 135 MIDDLE EAST: DPCR SERVICES MARKET, BY REGION, 2022-2029 (USD MILLION) 192

TABLE 136 GCC COUNTRIES: DPCR SERVICES MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 193

TABLE 137 DPCR SERVICES MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 193

TABLE 138 DPCR SERVICES MARKET, BY END USER, 2022-2029 (USD MILLION) 194

7 DPCR AND QPCR MARKET, BY APPLICATION 195

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## 7.1 INTRODUCTION 196

TABLE 139 QPCR AND DPCR MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 196

## 7.2 QPCR APPLICATIONS 196

TABLE 140 APPLICATION EXAMPLES OF QPCR 196

TABLE 141 QPCR APPLICATIONS MARKET, BY TYPE, 2022-2029 (USD MILLION) 197

### 7.2.1 CLINICAL APPLICATIONS 197

TABLE 142 QPCR MARKET FOR CLINICAL APPLICATIONS, BY TYPE, 2022-2029 (USD MILLION) 198

TABLE 143 QPCR MARKET FOR CLINICAL APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) 198

TABLE 144 NORTH AMERICA: QPCR MARKET FOR CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 199

TABLE 145 EUROPE: QPCR MARKET FOR CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 199

TABLE 146 ASIA PACIFIC: QPCR MARKET FOR CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 200

TABLE 147 LATIN AMERICA: QPCR MARKET FOR CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 200

TABLE 148 MIDDLE EAST: QPCR MARKET FOR CLINICAL APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) 201

TABLE 149 GCC COUNTRIES: QPCR MARKET FOR CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 201

#### 7.2.1.1 Infectious disease testing 201

##### 7.2.1.1.1 Wide utilization in pathogen testing to fuel market 201

TABLE 150 QPCR MARKET FOR INFECTIOUS DISEASE TESTING, BY REGION, 2022-2029 (USD MILLION) 202

TABLE 151 NORTH AMERICA: QPCR MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2022-2029 (USD MILLION) 202

TABLE 152 EUROPE: QPCR MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2022-2029 (USD MILLION) 203

TABLE 153 ASIA PACIFIC: QPCR MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2022-2029 (USD MILLION) 203

TABLE 154 LATIN AMERICA: QPCR MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2022-2029 (USD MILLION) 204

TABLE 155 MIDDLE EAST: QPCR MARKET FOR INFECTIOUS DISEASE TESTING, BY REGION, 2022-2029 (USD MILLION) 204

TABLE 156 GCC COUNTRIES: QPCR MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2022-2029 (USD MILLION) 204

#### 7.2.1.2 Oncology testing 205

##### 7.2.1.2.1 High uptake in tumor screening & classification to boost demand 205

TABLE 157 QPCR MARKET FOR ONCOLOGY TESTING, BY REGION, 2022-2029 (USD MILLION) 205

TABLE 158 NORTH AMERICA: QPCR MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2022-2029 (USD MILLION) 205

TABLE 159 EUROPE: QPCR MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2022-2029 (USD MILLION) 206

TABLE 160 ASIA PACIFIC: QPCR MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2022-2029 (USD MILLION) 206

TABLE 161 LATIN AMERICA: QPCR MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2022-2029 (USD MILLION) 207

TABLE 162 MIDDLE EAST: QPCR MARKET FOR ONCOLOGY TESTING, BY REGION, 2022-2029 (USD MILLION) 207

TABLE 163 GCC COUNTRIES: QPCR MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2022-2029 (USD MILLION) 207

#### 7.2.1.3 Blood screening 208

##### 7.2.1.3.1 Elimination of post-amplification processing to drive market 208

TABLE 164 QPCR CLINICAL APPLICATIONS MARKET FOR BLOOD SCREENING, BY REGION, 2022-2029 (USD MILLION) 208

TABLE 165 NORTH AMERICA: QPCR MARKET FOR BLOOD SCREENING, BY COUNTRY, 2022-2029 (USD MILLION) 208

TABLE 166 EUROPE: QPCR MARKET FOR BLOOD SCREENING, BY COUNTRY, 2022-2029 (USD MILLION) 209

TABLE 167 ASIA PACIFIC: QPCR MARKET FOR BLOOD SCREENING, BY COUNTRY, 2022-2029 (USD MILLION) 209

TABLE 168 LATIN AMERICA: QPCR MARKET FOR BLOOD SCREENING, BY COUNTRY, 2022-2029 (USD MILLION) 210

TABLE 169 MIDDLE EAST: QPCR MARKET FOR BLOOD SCREENING, BY REGION, 2022-2029 (USD MILLION) 210

TABLE 170 GCC COUNTRIES: QPCR MARKET FOR BLOOD SCREENING, BY COUNTRY, 2022-2029 (USD MILLION) 210

#### 7.2.1.4 Transplant diagnostics 211

##### 7.2.1.4.1 Growing preference for genome-based products to fuel market 211

TABLE 171 QPCR CLINICAL APPLICATIONS MARKET FOR TRANSPLANT DIAGNOSTICS, BY REGION, 2022-2029 (USD MILLION) 211

TABLE 172 NORTH AMERICA: QPCR MARKET FOR TRANSPLANT DIAGNOSTICS, BY COUNTRY, 2022-2029 (USD MILLION) 211

TABLE 173 EUROPE: QPCR MARKET FOR TRANSPLANT DIAGNOSTICS, BY COUNTRY, 2022-2029 (USD MILLION) 212

TABLE 174 ASIA PACIFIC: QPCR MARKET FOR TRANSPLANT DIAGNOSTICS, BY COUNTRY, 2022-2029 (USD MILLION) 212

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TABLE 175 □LATIN AMERICA: QPCR MARKET FOR TRANSPLANT DIAGNOSTICS, BY COUNTRY, 2022-2029 (USD MILLION) □213

TABLE 176 □MIDDLE EAST: QPCR MARKET FOR TRANSPLANT DIAGNOSTICS, BY REGION, 2022-2029 (USD MILLION) □213

TABLE 177 □GCC COUNTRIES: QPCR MARKET FOR TRANSPLANT DIAGNOSTICS, BY COUNTRY, 2022-2029 (USD MILLION) □213

7.2.1.5 □Other clinical applications □214

TABLE 178 □QPCR MARKET FOR OTHER CLINICAL APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) □214

TABLE 179 □NORTH AMERICA: QPCR MARKET FOR OTHER CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) □214

TABLE 180 □EUROPE: QPCR MARKET FOR OTHER CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) □215

TABLE 181 □ASIA PACIFIC: QPCR MARKET FOR OTHER CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) □215

TABLE 182 □LATIN AMERICA: QPCR MARKET FOR OTHER CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) □216

TABLE 183 □MIDDLE EAST: QPCR MARKET FOR OTHER CLINICAL APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) □216

TABLE 184 □GCC COUNTRIES: QPCR MARKET FOR OTHER CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) □216

7.2.2 □RESEARCH APPLICATIONS □217

TABLE 185 □QPCR MARKET FOR RESEARCH APPLICATIONS, BY TYPE, 2022-2029 (USD MILLION) □217

TABLE 186 □QPCR MARKET FOR RESEARCH APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) □217

TABLE 187 □NORTH AMERICA: QPCR MARKET FOR RESEARCH APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) □218

TABLE 188 □EUROPE: QPCR MARKET FOR RESEARCH APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) □218

TABLE 189 □ASIA PACIFIC: QPCR MARKET FOR RESEARCH APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) □219

TABLE 190 □LATIN AMERICA: QPCR MARKET FOR RESEARCH APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) □219

TABLE 191 □MIDDLE EAST: QPCR MARKET FOR RESEARCH APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) □219

TABLE 192 □GCC COUNTRIES: QPCR MARKET FOR RESEARCH APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) □220

7.2.2.1 □Single-cell analysis □220

7.2.2.1.1 □Growing need for high-resolution molecular data to drive market □220

TABLE 193 □QPCR MARKET FOR SINGLE-CELL ANALYSIS, BY REGION, 2022-2029 (USD MILLION) □220

TABLE 194 □NORTH AMERICA: QPCR MARKET FOR SINGLE-CELL ANALYSIS, BY COUNTRY, 2022-2029 (USD MILLION) □221

TABLE 195 □EUROPE: QPCR MARKET FOR SINGLE-CELL ANALYSIS, 2022-2029 (USD MILLION) □221

TABLE 196 □ASIA PACIFIC: QPCR MARKET FOR SINGLE-CELL ANALYSIS, 2022-2029 (USD MILLION) □221

TABLE 197 □LATIN AMERICA: QPCR MARKET FOR SINGLE-CELL ANALYSIS, BY COUNTRY, 2022-2029 (USD MILLION) □222

TABLE 198 □MIDDLE EAST: QPCR MARKET FOR SINGLE-CELL ANALYSIS, BY REGION, 2022-2029 (USD MILLION) □222

TABLE 199 □GCC COUNTRIES: QPCR MARKET FOR SINGLE-CELL ANALYSIS, BY COUNTRY, 2022-2029 (USD MILLION) □222

7.2.2.2 □Stem cell research □223

7.2.2.2.1 □Growing focus on regenerative medicine to boost demand □223

TABLE 200 □QPCR MARKET FOR STEM CELL RESEARCH, BY REGION, 2022-2029 (USD MILLION) □223

TABLE 201 □NORTH AMERICA: QPCR MARKET FOR STEM CELL RESEARCH, BY COUNTRY, 2022-2029 (USD MILLION) □223

TABLE 202 □EUROPE: QPCR MARKET FOR STEM CELL RESEARCH, BY COUNTRY, 2022-2029 (USD MILLION) □224

TABLE 203 □ASIA PACIFIC: QPCR MARKET FOR STEM CELL RESEARCH, BY COUNTRY, 2022-2029 (USD MILLION) □224

TABLE 204 □LATIN AMERICA: QPCR MARKET FOR STEM CELL RESEARCH, BY COUNTRY, 2022-2029 (USD MILLION) □225

TABLE 205 □MIDDLE EAST: QPCR MARKET FOR STEM CELL RESEARCH, BY REGION, 2022-2029 (USD MILLION) □225

TABLE 206 □GCC COUNTRIES: QPCR MARKET FOR STEM CELL RESEARCH, BY COUNTRY, 2022-2029 (USD MILLION) □225

7.2.2.3 □Gene expression □226

7.2.2.3.1 □Precise quantification requirements to support market growth □226

TABLE 207 □QPCR MARKET FOR GENE EXPRESSION, BY REGION, 2022-2029 (USD MILLION) □226

TABLE 208 □NORTH AMERICA: QPCR MARKET FOR GENE EXPRESSION, BY COUNTRY, 2022-2029 (USD MILLION) □226

TABLE 209 □EUROPE: QPCR MARKET FOR GENE EXPRESSION, BY COUNTRY, 2022-2029 (USD MILLION) □227

TABLE 210 □ASIA PACIFIC: QPCR MARKET FOR GENE EXPRESSION, BY COUNTRY, 2022-2029 (USD MILLION) □227

TABLE 211 □LATIN AMERICA: QPCR MARKET FOR GENE EXPRESSION, BY COUNTRY, 2022-2029 (USD MILLION) □228

TABLE 212 □MIDDLE EAST: QPCR MARKET FOR GENE EXPRESSION, BY REGION, 2022-2029 (USD MILLION) □228

TABLE 213 □GCC COUNTRIES: QPCR MARKET FOR GENE EXPRESSION, BY COUNTRY, 2022-2029 (USD MILLION) □228

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#### 7.2.2.4 Other research applications 229

TABLE 214 QPCR MARKET FOR OTHER RESEARCH APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) 229

TABLE 215 NORTH AMERICA: QPCR MARKET FOR OTHER RESEARCH APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 230

TABLE 216 EUROPE: QPCR MARKET FOR OTHER RESEARCH APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 230

TABLE 217 ASIA PACIFIC: QPCR MARKET FOR OTHER RESEARCH APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 231

TABLE 218 LATIN AMERICA: QPCR MARKET FOR OTHER RESEARCH APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 231

TABLE 219 MIDDLE EAST: QPCR MARKET FOR OTHER RESEARCH APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) 231

TABLE 220 GCC COUNTRIES: QPCR MARKET FOR OTHER RESEARCH APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 232

#### 7.2.3 Forensic applications 232

7.2.3.1 Ability to analyze genetic fingerprinting and biological samples to propel market 232

TABLE 221 QPCR MARKET FOR FORENSIC APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) 232

TABLE 222 NORTH AMERICA: QPCR MARKET FOR FORENSIC APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 233

TABLE 223 EUROPE: QPCR MARKET FOR FORENSIC APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 233

TABLE 224 ASIA PACIFIC: QPCR MARKET FOR FORENSIC APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 234

TABLE 225 LATIN AMERICA: QPCR MARKET FOR FORENSIC APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 234

TABLE 226 MIDDLE EAST: QPCR MARKET FOR FORENSIC APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) 234

TABLE 227 GCC COUNTRIES: QPCR MARKET FOR FORENSIC APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 235

#### 7.2.4 Environmental applications 235

7.2.4.1 Development of specialized assays for environmental monitoring to drive market 235

TABLE 228 QPCR ENVIRONMENTAL APPLICATIONS MARKET, BY REGION, 2022-2029 (USD MILLION) 235

TABLE 229 NORTH AMERICA: QPCR MARKET FOR ENVIRONMENTAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 236

TABLE 230 EUROPE: QPCR MARKET FOR ENVIRONMENTAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 236

TABLE 231 ASIA PACIFIC: QPCR MARKET FOR ENVIRONMENTAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 237

TABLE 232 LATIN AMERICA: QPCR MARKET FOR ENVIRONMENTAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 237

TABLE 233 MIDDLE EAST: QPCR MARKET FOR ENVIRONMENTAL APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) 237

TABLE 234 GCC COUNTRIES: QPCR MARKET FOR ENVIRONMENTAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 238

#### 7.2.5 Other QPCR applications 238

TABLE 235 OTHER QPCR APPLICATIONS MARKET, BY REGION, 2022-2029 (USD MILLION) 238

TABLE 236 NORTH AMERICA: OTHER QPCR APPLICATIONS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 239

TABLE 237 EUROPE: OTHER QPCR APPLICATIONS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 239

TABLE 238 ASIA PACIFIC: OTHER QPCR APPLICATIONS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 240

TABLE 239 LATIN AMERICA: OTHER QPCR APPLICATIONS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 240

TABLE 240 MIDDLE EAST: OTHER QPCR APPLICATIONS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 240

TABLE 241 GCC COUNTRIES: OTHER QPCR APPLICATIONS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 241

#### 7.3 DPCR applications 241

TABLE 242 DPCR APPLICATIONS MARKET, BY TYPE, 2022-2029 (USD MILLION) 241

##### 7.3.1 Clinical applications 242

TABLE 243 DPCR MARKET FOR CLINICAL APPLICATIONS, BY TYPE, 2022-2029 (USD MILLION) 242

TABLE 244 DPCR MARKET FOR CLINICAL APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) 242

TABLE 245 NORTH AMERICA: DPCR MARKET FOR CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 243

TABLE 246 EUROPE: DPCR MARKET FOR CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 243

TABLE 247 ASIA PACIFIC: DPCR MARKET FOR CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 244

TABLE 248 LATIN AMERICA: DPCR MARKET FOR CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 244

TABLE 249 MIDDLE EAST: DPCR MARKET FOR CLINICAL APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) 244

TABLE 250 GCC COUNTRIES: DPCR MARKET FOR CLINICAL APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 245

##### 7.3.1.1 Infectious disease testing 245

7.3.1.1.1 Accuracy and precision capabilities to boost demand 245

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TABLE 251 □ DPCR MARKET FOR INFECTIOUS DISEASE TESTING, BY REGION, 2022-2029 (USD MILLION) □ 245

TABLE 252 □ NORTH AMERICA: DPCR MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2022-2029 (USD MILLION) □ 246

TABLE 253 □ EUROPE: DPCR MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2022-2029 (USD MILLION) □ 246

TABLE 254 □ ASIA PACIFIC: DPCR MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2022-2029 (USD MILLION) □ 247

TABLE 255 □ LATIN AMERICA: DPCR MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2022-2029 (USD MILLION) □ 247

TABLE 256 □ MIDDLE EAST: DPCR MARKET FOR INFECTIOUS DISEASE TESTING, BY REGION, 2022-2029 (USD MILLION) □ 247

TABLE 257 □ GCC COUNTRIES: DPCR MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2022-2029 (USD MILLION) □ 248

7.3.1.2 □ Oncology testing □ 248

7.3.1.2.1 □ Detection and monitoring of cancer-related genetic alterations to drive market □ 248

TABLE 258 □ DPCR MARKET FOR ONCOLOGY TESTING, BY REGION, 2022-2029 (USD MILLION) □ 249

TABLE 259 □ NORTH AMERICA: DPCR MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2022-2029 (USD MILLION) □ 249

TABLE 260 □ EUROPE: DPCR MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2022-2029 (USD MILLION) □ 249

TABLE 261 □ ASIA PACIFIC: DPCR MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2022-2029 (USD MILLION) □ 250

TABLE 262 □ LATIN AMERICA: DPCR MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2022-2029 (USD MILLION) □ 250

TABLE 263 □ MIDDLE EAST: DPCR MARKET FOR ONCOLOGY TESTING, BY REGION, 2022-2029 (USD MILLION) □ 250

TABLE 264 □ GCC COUNTRIES: DPCR MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2022-2029 (USD MILLION) □ 251

7.3.1.3 □ Blood screening □ 251

7.3.1.3.1 □ Highly sensitive detection of infectious agents to support market growth □ 251

TABLE 265 □ DPCR MARKET FOR BLOOD SCREENING, BY REGION, 2022-2029 (USD MILLION) □ 251

TABLE 266 □ NORTH AMERICA: DPCR MARKET FOR BLOOD SCREENING, BY COUNTRY, 2022-2029 (USD MILLION) □ 252

TABLE 267 □ EUROPE: DPCR MARKET FOR BLOOD SCREENING, BY COUNTRY, 2022-2029 (USD MILLION) □ 252

TABLE 268 □ ASIA PACIFIC: DPCR MARKET FOR BLOOD SCREENING, BY COUNTRY, 2022-2029 (USD MILLION) □ 253

TABLE 269 □ LATIN AMERICA: DPCR MARKET FOR BLOOD SCREENING, BY COUNTRY, 2022-2029 (USD MILLION) □ 253

TABLE 270 □ MIDDLE EAST: DPCR MARKET FOR BLOOD SCREENING, BY REGION, 2022-2029 (USD MILLION) □ 253

TABLE 271 □ GCC COUNTRIES: DPCR MARKET FOR BLOOD SCREENING, BY COUNTRY, 2022-2029 (USD MILLION) □ 254

**Digital PCR Market / Digital PCR (dPCR) and Real-time PCR (qPCR) Market Size, Share & Trends by Offering (Product (Reagents & Consumables, Instrument), Software, Services), Application (Clinical (infectious, Oncology), Research, Forensic, Environmental) - Global Forecast to 2029**

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