

Digital PCR (dPCR) and Real-time PCR (qPCR) Market by Product (Instruments, Reagents & Consumables, Software & Services), Application (Clinical, Research, Forensic), End User (Hospital, Diagnostic Labs, Pharma, Biotech, CROs) - Global Forecast to 2028

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Report description:

The global Digital PCR and Real-time PCR Market is consolidated market. The market is estimated to grow to USD 12.4 billion by 2028 from USD 8.5 billion in 2023, at a CAGR of 7.8%. The growth of this market is due to factors such as the rising infectious diseases and genetic disorders, continuous advancements in PCR technologies, and increasing investments. However, high instrument costs-especially that of dPCR-and the technical limitations of PCR are restraining market growth.

"By product & service, the consumables & reagent segment is expected to grow at the highest during the forecast period." On the basis of product & service, the dPCR and qPCR market is segmented into reagents and consumables; instruments; and software and services. This segment includes specific reagents (such as master mixes, assay kits, and enzymes) and consumables (such as reaction tubes, needles, and vials) used during dPCR procedures. Generally, dPCR reagents consist of a super mix or a master mix that contains the buffer, DNA polymerase, dNTPs, and dsDNA-binding dyes. The reagents and consumables segment is expected to witness the highest growth during the forecast period. The dPCR and qPCR products are increasingly used by researchers and healthcare professionals due to the ongoing automation and miniaturization of qPCR/dPCR instruments, the commercialization of advanced software, and the availability of customized laboratory reagents such factors are expected to drive the growth of the qPCR and dPCR reagents and consumables market.

"By application, the clinical applications segment is expected to grow at the highest CAGR during the forecast period." The clinical applications segment is estimated to dominate the qPCR and dPCR applications market during the forecast period. The

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key factors driving the market growth include the growing usage of qPCR in disease diagnosis, growing public emphasis on early & effective disease diagnosis & treatment, technological benefits offered by dPCR such as high flexibility, increased device sensitivity, better precision, and absolute quantification of target molecule, and the increasing global burden of cancer are key factors that will drive the market for clinical applications during the forecast period.

"By end-user, the hospitals and diagnostics centers segment dominated the market during the forecast period."

The hospital and diagnostic laboratories dominated the Digital PCR and Real-time PCR Market during the forecast period. This can be attributed to the increasing market availability of qPCR reagents for clinical diagnostic applications, the ongoing expansion of healthcare infrastructure across emerging countries, the high prevalence of target diseases, and growing awareness among end users related to the benefits offered by qPCR for clinical diagnosis, the growing demand for early and efficient disease diagnosis and treatment, and the increasing number of dPCR product launches for diagnostic applications.

"Asia Pacific dPCR and qPCR market is expected to witness the highest growth during the forecast period."

The Asia Pacific market is estimated to grow at the highest CAGR during the forecast period primarily due to the ongoing expansion and modernization of the healthcare infrastructure in emerging Asian countries, increasing number of research projects in China, India, and Japan in the field of genomics and oncology, rising trend of clinical research being outsourced to Asia-based CROs by leading drug manufacturing companies, and continuous government support for genomics-based research activities in emerging Asia Pacific countries.

A breakdown of the primary participants referred to for this report is provided below:

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

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

-□By Region: North America-40%, Europe-25%, Asia Pacific-20%, RoW-15%

Prominent players in the global digital PCR (dPCR) and real-time PCR (qPCR) market are, Thermo Fisher Scientific Inc. (US), Bio-Rad Laboratories, Inc. (US), F. Hoffmann-La Roche Ltd. (Switzerland), Abbott Laboratories (US), Agilent Technologies, Inc. (US), Becton, Dickinson and Company (US), Takara Bio Inc. (Japan), Danaher Corporation (US), Eppendorf (Germany), Promega Corporation (US), Merck KGaA (Germany), QIAGEN (Germany), BioMerieux (France), Meridian Bioscience (US), Quidel Corporation (US), Enzo Biochem, Inc. (US), Stilla (France), Standard BioTools (US), ENDRESS+HAUSER Group Services AG (ENDRESS+HAUSER) (Switzerland), JN Medsys (Singapore), BIONEER CORPORATION (South Korea), ELITech Group (France), QuantaBio (US), Sacace Biotechnologies Srl (Italy), Bio Molecular Systems (Australia), Biomeme, Inc. (US), Kyratex (Australia), LGC Bioresearch Technologies (England), Antylia Scientific (US), and Genome Diagnostics Pvt. Ltd. (India).

Research Coverage:

The report analyzes the dPCR and qPCR market and aims at estimating the market size and future growth potential. The report also includes an in-depth competitive analysis of the key players in this market, along with their company profiles, product offerings, and recent developments.

Reasons to Buy the Report

The report will enrich established firms as well as new entrants/smaller firms to gauge the pulse of the market, which, in turn, would help them to garner a more significant share. Firms purchasing the report could use one, or a combination of the below mentioned five strategies for strengthening their market presence.

The report provides insights on the following pointers:

- Analysis of key drivers (Rising incidence and prevalence of target infectious diseases and genetic disorders, continuous

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advancements in PCR technologies, growing importance of PCR in biomarker discovery), restraints (High device costs associated with dPCR, technical limitations of qPCR and dPCR), opportunities (Growing market penetration in emerging countries), and challenges (Time-consuming methodology involving sample handling and post-PCR analysis, Lack of accuracy and standardization in protocols) influencing the growth of the Digital PCR and Real-time PCR Market

- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the Digital PCR and Real-time PCR Market

- Market Development: Comprehensive information about lucrative markets - the report analyses the Digital PCR and Real-time PCR Market across varied regions

- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the Digital PCR and Real-time PCR market

- Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like Thermo Fisher Scientific Inc. (US), Bio-Rad Laboratories, Inc. (US), F. Hoffmann-La Roche Ltd. (Switzerland), Abbott Laboratories (US), Agilent Technologies, Inc. (US), Becton, Dickinson and Company (US), Takara Bio Inc. (Japan), and Danaher Corporation (US).

Table of Contents:

1	INTRODUCTION	53
1.1	STUDY OBJECTIVES	53
1.2	MARKET DEFINITION	53
1.2.1	INCLUSIONS & EXCLUSIONS	54
1.3	STUDY SCOPE	54
1.3.1	MARKETS COVERED	54
1.3.2	YEARS CONSIDERED	55
1.4	CURRENCY	55
1.5	LIMITATIONS	55
1.6	STAKEHOLDERS	56
1.7	SUMMARY OF CHANGES	56
1.7.1	RECESSION IMPACT	56
2	RESEARCH METHODOLOGY	57
2.1	RESEARCH APPROACH	57
	FIGURE 1 DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET: RESEARCH DESIGN	57
2.1.1	SECONDARY RESEARCH	58
2.1.2	PRIMARY RESEARCH	59
	FIGURE 2 DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET: BREAKDOWN OF PRIMARIES	60
2.2	MARKET SIZE ESTIMATION	60
	FIGURE 3 DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET SIZE ESTIMATION: SUPPLY-SIDE ANALYSIS (2022)	60
	FIGURE 4 MARKET SIZE ESTIMATION: APPROACH 1 - REVENUE SHARE ANALYSIS (2022)	61
	FIGURE 5 ILLUSTRATIVE EXAMPLE OF QIAGEN: REVENUE SHARE ANALYSIS (2022)	62
2.2.1	KEY INDUSTRY INSIGHTS	63
2.3	GROWTH FORECAST	64
	FIGURE 6 DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET: CAGR PROJECTIONS, 2023-2028	64
	FIGURE 7 DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET: GROWTH ANALYSIS OF DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES	65
2.4	MARKET BREAKDOWN AND DATA TRIANGULATION	66

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FIGURE 8	DATA TRIANGULATION METHODOLOGY	66
2.5	RESEARCH ASSUMPTIONS	67
2.6	RISK ANALYSIS	67
2.7	RECESSION IMPACT	67
TABLE 1	GLOBAL INFLATION RATE PROJECTIONS, 2021-2027 (% GROWTH)	67
TABLE 2	US HEALTH EXPENDITURE, 2019-2022 (USD MILLION)	68
TABLE 3	US HEALTH EXPENDITURE, 2023-2027 (USD MILLION)	68
3	EXECUTIVE SUMMARY	69
FIGURE 9	GLOBAL REAL-TIME PCR PRODUCTS & SERVICES MARKET, BY TYPE, 2023 VS. 2028 (USD MILLION)	70
FIGURE 10	GLOBAL DIGITAL PCR PRODUCTS & SERVICES MARKET, BY TYPE, 2023 VS. 2028 (USD MILLION)	71
FIGURE 11	GLOBAL REAL-TIME PCR MARKET, BY APPLICATION, 2023 VS. 2028 (USD MILLION)	72
FIGURE 12	GLOBAL DIGITAL PCR MARKET, BY APPLICATION, 2023 VS. 2028 (USD MILLION)	73
FIGURE 13	GLOBAL REAL-TIME PCR MARKET, BY END USER, 2023 VS. 2028 (USD MILLION)	74
FIGURE 14	GLOBAL DIGITAL PCR MARKET, BY END USER, 2023 VS. 2028 (USD MILLION)	75
FIGURE 15	DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET: GEOGRAPHICAL SNAPSHOT	76
4	PREMIUM INSIGHTS	77
4.1	GLOBAL DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET OVERVIEW	77
FIGURE 16	RISING INCIDENCE AND PREVALENCE OF TARGET INFECTIOUS DISEASES & GENETIC DISORDERS EXPECTED TO DRIVE MARKET GROWTH	77
4.2	ASIA PACIFIC: DPCR AND QPCR MARKET OVERVIEW (2022)	78
FIGURE 17	ONGOING EXPANSION AND MODERNIZATION OF HEALTHCARE INFRASTRUCTURE IN EMERGING ASIAN COUNTRIES TO DRIVE MARKET GROWTH	78
4.3	GEOGRAPHICAL SNAPSHOT OF DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET	79
FIGURE 18	CHINA TO WITNESS HIGHEST GROWTH DURING FORECAST PERIOD	79
5	MARKET OVERVIEW	80
5.1	INTRODUCTION	80
5.2	MARKET DYNAMICS	80
FIGURE 19	DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES	80
5.2.1	DRIVERS	81
5.2.1.1	Rising incidence and prevalence of target infectious diseases and genetic disorders	81
FIGURE 20	GLOBAL BURDEN OF HIV INFECTIONS, BY REGION, 2021	81
5.2.1.2	Continuous advancements in PCR technologies	82
FIGURE 21	TRADITIONAL PCR VS. QPCR AND DPCR	83
5.2.1.3	Growing importance of PCR in biomarker discovery	83
5.2.2	RESTRAINTS	84
5.2.2.1	High device costs associated with dPCR	84
5.2.2.2	Technical limitations of qPCR and dPCR	84
5.2.3	OPPORTUNITIES	85
5.2.3.1	Growing market penetration in emerging countries	85
5.2.4	CHALLENGES	85
5.2.4.1	Time-consuming methodology involving sample handling and post-PCR analysis	85
5.2.4.2	Lack of accuracy & standardization in protocols	86
5.3	PORTER'S FIVE FORCES ANALYSIS	87
5.3.1	OVERVIEW	87
TABLE 4	IMPACT OF PORTER'S FIVE FORCES ANALYSIS ON DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET	87
5.3.2	INTENSITY OF COMPETITIVE RIVALRY	87

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5.3.3	BARGAINING POWER OF SUPPLIERS	87
5.3.4	BARGAINING POWER OF BUYERS	87
5.3.5	THREAT FROM NEW ENTRANTS	88
5.3.6	THREAT FROM SUBSTITUTES	88
5.4	GLOBAL REGULATORY LANDSCAPE	88
5.4.1	KEY REGULATORY AGENCIES	88
5.5	VALUE CHAIN ANALYSIS	89
FIGURE 22	VALUE CHAIN ANALYSIS-MAXIMUM VALUE ADDED DURING REGULATION AND DISTRIBUTION STAGES	89
5.5.1	RESEARCH & DEVELOPMENT	89
5.5.2	EVALUATION AND ADAPTATION	90
5.5.3	REGULATIONS VIA NATIONAL AND INTERNATIONAL BODIES	90
5.5.4	POST-DELIVERY SUPPORT	90
5.6	SUPPLY CHAIN ANALYSIS	90
5.6.1	PROMINENT COMPANIES	90
5.6.2	SMALL & MEDIUM-SIZED ENTERPRISES	90
5.6.3	END USERS	90
FIGURE 23	DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET: SUPPLY CHAIN ANALYSIS	91
5.7	TECHNOLOGY ANALYSIS	91
5.7.1	DEVELOPMENT OF PORTABLE INSTRUMENTS USING PCR DIAGNOSTIC SERVICES	91
5.8	ECOSYSTEM ANALYSIS	92
TABLE 5	SUPPLY CHAIN ECOSYSTEM	92
5.9	PATENT ANALYSIS	94
5.10	PRICING ANALYSIS	95
TABLE 6	AVERAGE PRICE RANGE OF PCR PRODUCTS, BY KEY PLAYERS (USD)	95
5.11	TRADE ANALYSIS	96
TABLE 7	IMPORT DATA FOR PCR ANALYZERS (HS CODE 3822), BY COUNTRY, 2017-2021 (USD)	96
TABLE 8	EXPORT DATA FOR PCR ANALYZERS (HS CODE 3822), BY COUNTRY, 2017-2021 (USD)	96
5.12	KEY CONFERENCES AND EVENTS (2023)	97
TABLE 9	DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET: LIST OF MAJOR CONFERENCES AND EVENTS	97
5.13	KEY STAKEHOLDERS AND BUYING CRITERIA	98
5.13.1	KEY STAKEHOLDERS IN BUYING PROCESS, BY END USER	98
TABLE 10	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY END USER (%)	98
5.13.2	BUYING CRITERIA	98
FIGURE 24	KEY BUYING CRITERIA, BY END USER	98
6	DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET, BY PRODUCT & SERVICE	99
6.1	INTRODUCTION	100
TABLE 11	DPCR AND QPCR MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION)	100
6.2	QPCR	100
TABLE 12	QPCR PRODUCTS & SERVICES MARKET, BY REGION, 2021-2028 (USD MILLION)	101
TABLE 13	NORTH AMERICA: QPCR PRODUCTS & SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION)	101
TABLE 14	EUROPE: QPCR PRODUCTS & SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION)	102
TABLE 15	ASIA PACIFIC: QPCR PRODUCTS & SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION)	102
TABLE 16	LATIN AMERICA: QPCR PRODUCTS & SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION)	103
TABLE 17	QPCR MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION)	103
6.2.1	QPCR REAGENTS AND CONSUMABLES	104
6.2.1.1	Rise in probe-based multiplex genetic analysis procedures to drive qPCR reagents and consumables market	104
TABLE 18	QPCR REAGENTS AND CONSUMABLES MARKET, BY REGION, 2021-2028 (USD MILLION)	104

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TABLE 19 NORTH AMERICA: QPCR REAGENTS AND CONSUMABLES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 105

TABLE 20 EUROPE: QPCR REAGENTS AND CONSUMABLES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 105

TABLE 21 ASIA PACIFIC: QPCR REAGENTS AND CONSUMABLES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 106

TABLE 22 LATIN AMERICA: QPCR REAGENTS AND CONSUMABLES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 106

6.2.1.2 qPCR reagents and consumables market, by application 107

TABLE 23 QPCR REAGENTS AND CONSUMABLES MARKET, BY APPLICATION, 2021-2028 (USD MILLION) 107

6.2.1.3 qPCR reagents and consumables market, by end user 107

TABLE 24 QPCR REAGENTS AND CONSUMABLES MARKET, BY END USER, 2021-2028 (USD MILLION) 107

6.2.2 QPCR INSTRUMENTS 108

6.2.2.1 Growing adoption of qPCR instruments to drive market 108

TABLE 25 QPCR INSTRUMENTS MARKET, BY REGION, 2021-2028 (USD MILLION) 108

TABLE 26 NORTH AMERICA: QPCR INSTRUMENTS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 108

TABLE 27 EUROPE: QPCR INSTRUMENTS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 109

TABLE 28 ASIA PACIFIC: QPCR INSTRUMENTS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 109

TABLE 29 LATIN AMERICA: QPCR INSTRUMENTS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 110

6.2.2.2 qPCR instruments market, by application 110

TABLE 30 QPCR INSTRUMENTS MARKET, BY APPLICATION, 2021-2028 (USD MILLION) 110

6.2.2.3 qPCR instruments market, by end user 111

TABLE 31 QPCR INSTRUMENTS MARKET, BY END USER, 2021-2028 (USD MILLION) 111

6.2.3 QPCR SOFTWARE AND SERVICES 111

6.2.3.1 Rising demand for specialized qPCR analysis software to boost market 111

TABLE 32 QPCR SOFTWARE AND SERVICES MARKET, BY REGION, 2021-2028 (USD MILLION) 112

TABLE 33 NORTH AMERICA: QPCR SOFTWARE AND SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 112

TABLE 34 EUROPE: QPCR SOFTWARE AND SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 113

TABLE 35 ASIA PACIFIC: QPCR SOFTWARE AND SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 113

TABLE 36 LATIN AMERICA: QPCR SOFTWARE AND SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 114

6.2.3.2 qPCR software and services market, by application 114

TABLE 37 QPCR SOFTWARE AND SERVICES MARKET, BY APPLICATION, 2021-2028 (USD MILLION) 114

6.2.3.3 qPCR software and services market, by end user 115

TABLE 38 QPCR SOFTWARE AND SERVICES MARKET, BY END USER, 2021-2028 (USD MILLION) 115

6.3 DPCR 115

6.3.1 GROWING PRIVATE FUNDING FOR DEVELOPMENT AND COMMERCIALIZATION OF INNOVATIVE DPCR INSTRUMENTS TO DRIVE MARKET 115

TABLE 39 DPCR MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION) 116

TABLE 40 DPCR PRODUCTS & SERVICES MARKET, BY REGION, 2021-2028 (USD MILLION) 116

TABLE 41 NORTH AMERICA: DPCR PRODUCTS & SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 117

TABLE 42 EUROPE: DPCR PRODUCTS & SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 117

TABLE 43 ASIA PACIFIC: DPCR PRODUCTS & SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 118

TABLE 44 LATIN AMERICA: DPCR PRODUCTS & SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 118

6.3.2 DPCR REAGENTS AND CONSUMABLES 119

6.3.2.1 Rising incidence of infectious disease and availability of novel dPCR reagents worldwide to drive market 119

TABLE 45 DPCR REAGENTS AND CONSUMABLES MARKET, BY REGION, 2021-2028 (USD MILLION) 119

TABLE 46 NORTH AMERICA: DPCR REAGENTS AND CONSUMABLES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 120

TABLE 47 EUROPE: DPCR REAGENTS AND CONSUMABLES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 120

TABLE 48 ASIA PACIFIC: DPCR REAGENTS AND CONSUMABLES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 121

TABLE 49 LATIN AMERICA: DPCR REAGENTS AND CONSUMABLES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 121

6.3.2.2 dPCR reagents and consumables market, by application 122

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TABLE 50 □ DPCR REAGENTS AND CONSUMABLES MARKET, BY APPLICATION, 2021-2028 (USD MILLION) □ 122

6.3.2.3 □ dPCR reagents and consumables market, by end user □ 122

TABLE 51 □ DPCR REAGENTS AND CONSUMABLES MARKET, BY END USER, 2021-2028 (USD MILLION) □ 122

6.3.3 □ DPCR INSTRUMENTS □ 123

6.3.3.1 □ Rise in dPCR-based genetic research activities worldwide to drive market growth □ 123

TABLE 52 □ DPCR INSTRUMENTS MARKET, BY TYPE, 2021-2028 (USD MILLION) □ 123

TABLE 53 □ DPCR INSTRUMENTS MARKET, BY REGION, 2021-2028 (USD MILLION) □ 124

TABLE 54 □ NORTH AMERICA: DPCR INSTRUMENTS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 124

TABLE 55 □ EUROPE: DPCR INSTRUMENTS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 125

TABLE 56 □ ASIA PACIFIC: DPCR INSTRUMENTS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 125

TABLE 57 □ LATIN AMERICA: DPCR INSTRUMENTS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 126

6.3.3.2 □ dPCR instruments market, by application □ 126

TABLE 58 □ DPCR INSTRUMENTS MARKET, BY APPLICATION, 2021-2028 (USD MILLION) □ 126

6.3.3.3 □ dPCR instruments market, by end user □ 127

TABLE 59 □ DPCR INSTRUMENTS MARKET, BY END USER, 2021-2028 (USD MILLION) □ 127

6.3.3.4 □ Droplet digital PCR □ 127

6.3.3.4.1 □ Advantages of ddPCR to boost adoption □ 127

TABLE 60 □ DROPLET DIGITAL PCR MARKET, BY REGION, 2021-2028 (USD MILLION) □ 128

TABLE 61 □ NORTH AMERICA: DROPLET DIGITAL PCR MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 128

TABLE 62 □ EUROPE: DROPLET DIGITAL PCR MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 129

TABLE 63 □ ASIA PACIFIC: DROPLET DIGITAL PCR MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 129

TABLE 64 □ LATIN AMERICA: DROPLET DIGITAL PCR MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 130

6.3.3.5 □ Chip-based digital PCR □ 130

6.3.3.5.1 □ Rise in genetic research activities to propel market growth □ 130

TABLE 65 □ CHIP-BASED DIGITAL PCR MARKET, BY REGION, 2021-2028 (USD MILLION) □ 130

TABLE 66 □ NORTH AMERICA: CHIP-BASED DIGITAL PCR MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 131

TABLE 67 □ EUROPE: CHIP-BASED DIGITAL PCR MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 131

TABLE 68 □ ASIA PACIFIC: CHIP-BASED DIGITAL PCR MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 132

TABLE 69 □ LATIN AMERICA: CHIP-BASED DIGITAL PCR MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 132

6.3.3.6 □ BEAMing digital PCR □ 133

6.3.3.6.1 □ Growing application of BEAMing digital PCR in cancer research to favor market □ 133

TABLE 70 □ BEAMING DIGITAL PCR MARKET, BY REGION, 2021-2028 (USD MILLION) □ 133

TABLE 71 □ NORTH AMERICA: BEAMING DIGITAL PCR MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 134

TABLE 72 □ EUROPE: BEAMING DIGITAL PCR MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 134

TABLE 73 □ ASIA PACIFIC: BEAMING DIGITAL PCR MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 135

TABLE 74 □ LATIN AMERICA: BEAMING DIGITAL PCR MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 135

6.3.4 □ DPCR SOFTWARE AND SERVICES □ 136

6.3.4.1 □ Easy-to-use interfaces and simplified workflows to support market growth □ 136

TABLE 75 □ DPCR SOFTWARE AND SERVICES MARKET, BY REGION, 2021-2028 (USD MILLION) □ 136

TABLE 76 □ NORTH AMERICA: DPCR SOFTWARE AND SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 137

TABLE 77 □ EUROPE: DPCR SOFTWARE AND SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 137

TABLE 78 □ ASIA PACIFIC: DPCR SOFTWARE AND SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 138

TABLE 79 □ LATIN AMERICA: DPCR SOFTWARE AND SERVICES MARKET, BY COUNTRY, 2021-2028 (USD MILLION) □ 138

6.3.4.2 □ dPCR software and services market, by application □ 139

TABLE 80 □ DPCR SOFTWARE AND SERVICES MARKET, BY APPLICATION, 2021-2028 (USD MILLION) □ 139

6.3.4.3 □ dPCR software and services market, by end user □ 139

TABLE 81 □ DPCR SOFTWARE AND SERVICES MARKET, BY END USER, 2021-2028 (USD MILLION) □ 139

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7 DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET, BY APPLICATION 140

7.1 INTRODUCTION 141

TABLE 82 DPCR & QPCR MARKET, BY TECHNOLOGY, 2021-2028 (USD MILLION) 141

7.2 QPCR APPLICATIONS 141

TABLE 83 QPCR MARKET, BY APPLICATION, 2021-2028 (USD MILLION) 142

7.2.1 QPCR CLINICAL APPLICATIONS 142

TABLE 84 QPCR CLINICAL APPLICATIONS MARKET, BY TYPE, 2021-2028 (USD MILLION) 143

TABLE 85 QPCR CLINICAL APPLICATIONS MARKET, BY REGION, 2021-2028 (USD MILLION) 144

TABLE 86 NORTH AMERICA: QPCR CLINICAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 144

TABLE 87 EUROPE: QPCR CLINICAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 144

TABLE 88 ASIA PACIFIC: QPCR CLINICAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 145

TABLE 89 LATIN AMERICA: QPCR CLINICAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 145

7.2.1.1 Infectious disease testing 146

7.2.1.1.1 Wide availability of qPCR assays and kits for infectious disease testing to drive market 146

TABLE 90 QPCR CLINICAL APPLICATIONS MARKET FOR INFECTIOUS DISEASE TESTING, BY REGION, 2021-2028 (USD MILLION) 146

TABLE 91 NORTH AMERICA: QPCR CLINICAL APPLICATIONS MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2021-2028 (USD MILLION) 147

TABLE 92 EUROPE: QPCR CLINICAL APPLICATIONS MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2021-2028 (USD MILLION) 147

TABLE 93 ASIA PACIFIC: QPCR CLINICAL APPLICATIONS MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2021-2028 (USD MILLION) 148

TABLE 94 LATIN AMERICA: QPCR CLINICAL APPLICATIONS MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2021-2028 (USD MILLION) 148

7.2.1.2 Oncology testing 149

7.2.1.2.1 Growing use of qPCR techniques in tumor profiling to aid growth 149

TABLE 95 QPCR CLINICAL APPLICATIONS MARKET FOR ONCOLOGY TESTING, BY REGION, 2021-2028 (USD MILLION) 149

TABLE 96 NORTH AMERICA: QPCR CLINICAL APPLICATIONS MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2021-2028 (USD MILLION) 150

TABLE 97 EUROPE: QPCR CLINICAL APPLICATIONS MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2021-2028 (USD MILLION) 150

TABLE 98 ASIA PACIFIC: QPCR CLINICAL APPLICATIONS MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2021-2028 (USD MILLION) 151

TABLE 99 LATIN AMERICA: QPCR CLINICAL APPLICATIONS MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2021-2028 (USD MILLION) 151

7.2.1.3 Blood screening 152

7.2.1.3.1 Elimination of post-amplification processing and easy process automation to boost growth 152

TABLE 100 QPCR CLINICAL APPLICATIONS MARKET FOR BLOOD SCREENING, BY REGION, 2021-2028 (USD MILLION) 152

TABLE 101 NORTH AMERICA: QPCR CLINICAL APPLICATIONS MARKET FOR BLOOD SCREENING, BY COUNTRY, 2021-2028 (USD MILLION) 153

TABLE 102 EUROPE: QPCR CLINICAL APPLICATIONS MARKET FOR BLOOD SCREENING, BY COUNTRY, 2021-2028 (USD MILLION) 153

TABLE 103 ASIA PACIFIC: QPCR CLINICAL APPLICATIONS MARKET FOR BLOOD SCREENING, BY COUNTRY, 2021-2028 (USD MILLION) 154

TABLE 104 LATIN AMERICA: QPCR CLINICAL APPLICATIONS MARKET FOR BLOOD SCREENING, BY COUNTRY, 2021-2028 (USD MILLION) 154

7.2.1.4 Transplant diagnostics 155

7.2.1.4.1 Increasing commercialization of qPCR products for transplant diagnostics to drive growth 155

TABLE 105 QPCR CLINICAL APPLICATIONS MARKET FOR TRANSPLANT DIAGNOSTICS, BY REGION, 2021-2028 (USD MILLION) 155

TABLE 106 NORTH AMERICA: QPCR CLINICAL APPLICATIONS MARKET FOR TRANSPLANT DIAGNOSTICS, BY COUNTRY, 2021-2028

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(USD MILLION) 156

TABLE 107 EUROPE: QPCR CLINICAL APPLICATIONS MARKET FOR TRANSPLANT DIAGNOSTICS, BY COUNTRY, 2021-2028 (USD MILLION) 156

TABLE 108 ASIA PACIFIC: QPCR CLINICAL APPLICATIONS MARKET FOR TRANSPLANT DIAGNOSTICS, BY COUNTRY, 2021-2028 (USD MILLION) 157

TABLE 109 LATIN AMERICA: QPCR CLINICAL APPLICATIONS MARKET FOR TRANSPLANT DIAGNOSTICS, BY COUNTRY, 2021-2028 (USD MILLION) 157

7.2.1.5 Other clinical applications 158

TABLE 110 QPCR MARKET FOR OTHER CLINICAL APPLICATIONS, BY REGION, 2021-2028 (USD MILLION) 158

TABLE 111 NORTH AMERICA: QPCR CLINICAL APPLICATIONS MARKET FOR OTHER CLINICAL APPLICATIONS, BY COUNTRY, 2021-2028 (USD MILLION) 158

TABLE 112 EUROPE: QPCR CLINICAL APPLICATIONS MARKET FOR OTHER CLINICAL APPLICATIONS, BY COUNTRY, 2021-2028 (USD MILLION) 159

TABLE 113 ASIA PACIFIC: QPCR CLINICAL APPLICATIONS MARKET FOR OTHER CLINICAL APPLICATIONS, BY COUNTRY, 2021-2028 (USD MILLION) 159

TABLE 114 LATIN AMERICA: QPCR CLINICAL APPLICATIONS MARKET FOR OTHER CLINICAL APPLICATIONS, BY COUNTRY, 2021-2028 (USD MILLION) 160

7.2.2 RESEARCH APPLICATIONS 160

7.2.2.1 Growing genome-based research activity to boost market growth 160

TABLE 115 QPCR RESEARCH APPLICATIONS MARKET, BY REGION, 2021-2028 (USD MILLION) 161

TABLE 116 NORTH AMERICA: QPCR RESEARCH APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 161

TABLE 117 EUROPE: QPCR RESEARCH APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 162

TABLE 118 ASIA PACIFIC: QPCR RESEARCH APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 162

TABLE 119 LATIN AMERICA: QPCR RESEARCH APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 163

7.2.3 FORENSIC APPLICATIONS 163

7.2.3.1 Growing crime rates and increasing application of genomic analysis in criminology & forensics to fuel growth 163

TABLE 120 QPCR FORENSIC APPLICATIONS MARKET, BY REGION, 2021-2028 (USD MILLION) 164

TABLE 121 NORTH AMERICA: QPCR FORENSIC APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 164

TABLE 122 EUROPE: QPCR FORENSIC APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 165

TABLE 123 ASIA PACIFIC: QPCR FORENSIC APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 165

TABLE 124 LATIN AMERICA: QPCR FORENSIC APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 166

7.2.4 ENVIRONMENTAL APPLICATIONS 166

7.2.4.1 Growing use of qPCR in environmental microbiology to drive market 166

TABLE 125 QPCR ENVIRONMENTAL APPLICATIONS MARKET, BY REGION, 2021-2028 (USD MILLION) 167

TABLE 126 NORTH AMERICA: QPCR ENVIRONMENTAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 167

TABLE 127 EUROPE: QPCR ENVIRONMENTAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 168

TABLE 128 ASIA PACIFIC: QPCR ENVIRONMENTAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 168

TABLE 129 LATIN AMERICA: QPCR ENVIRONMENTAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 169

7.2.5 OTHER APPLICATIONS 169

TABLE 130 OTHER QPCR APPLICATIONS MARKET, BY REGION, 2021-2028 (USD MILLION) 169

TABLE 131 NORTH AMERICA: OTHER QPCR APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 170

TABLE 132 EUROPE: OTHER QPCR APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 170

TABLE 133 ASIA PACIFIC: OTHER QPCR APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 171

TABLE 134 LATIN AMERICA: OTHER QPCR APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 171

7.3 DPCR APPLICATIONS 172

TABLE 135 DPCR MARKET, BY APPLICATION, 2021-2028 (USD MILLION) 172

7.3.1 CLINICAL APPLICATIONS 172

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TABLE 136	DPCR CLINICAL APPLICATIONS MARKET, BY TYPE 2021-2028 (USD MILLION)	173
TABLE 137	DPCR CLINICAL APPLICATIONS MARKET, BY REGION, 2021-2028 (USD MILLION)	173
TABLE 138	NORTH AMERICA: DPCR CLINICAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION)	174
TABLE 139	EUROPE: DPCR CLINICAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION)	174
TABLE 140	ASIA PACIFIC: DPCR CLINICAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION)	175
TABLE 141	LATIN AMERICA: DPCR CLINICAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION)	175
7.3.1.1	Infectious disease testing	176
7.3.1.1.1	Accuracy and precision of dPCR to boost demand in infectious disease testing	176
TABLE 142	DPCR CLINICAL APPLICATIONS MARKET FOR INFECTIOUS DISEASE TESTING, BY REGION, 2021-2028 (USD MILLION)	176
TABLE 143	NORTH AMERICA: DPCR CLINICAL APPLICATIONS MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2021-2028 (USD MILLION)	177
TABLE 144	EUROPE: DPCR CLINICAL APPLICATIONS MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2021-2028 (USD MILLION)	177
TABLE 145	ASIA PACIFIC: DPCR CLINICAL APPLICATIONS MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2021-2028 (USD MILLION)	178
TABLE 146	LATIN AMERICA: DPCR CLINICAL APPLICATIONS MARKET FOR INFECTIOUS DISEASE TESTING, BY COUNTRY, 2021-2028 (USD MILLION)	178
7.3.1.2	Oncology testing	179
7.3.1.2.1	dPCR to play vital role in oncology testing and clinical studies	179
TABLE 147	DPCR CLINICAL APPLICATIONS MARKET FOR ONCOLOGY TESTING, BY REGION, 2021-2028 (USD MILLION)	179
TABLE 148	NORTH AMERICA: DPCR CLINICAL APPLICATIONS MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2021-2028 (USD MILLION)	180
TABLE 149	EUROPE: DPCR CLINICAL APPLICATIONS MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2021-2028 (USD MILLION)	180
TABLE 150	ASIA PACIFIC: DPCR CLINICAL APPLICATIONS MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2021-2028 (USD MILLION)	181
TABLE 151	LATIN AMERICA: DPCR CLINICAL APPLICATIONS MARKET FOR ONCOLOGY TESTING, BY COUNTRY, 2021-2028 (USD MILLION)	181
7.3.1.3	Blood screening	182
7.3.1.3.1	Multiple advantages of dPCR over traditional techniques to drive blood screening market	182
TABLE 152	DPCR CLINICAL APPLICATIONS MARKET FOR BLOOD SCREENING, BY REGION, 2021-2028 (USD MILLION)	182
TABLE 153	NORTH AMERICA: DPCR CLINICAL APPLICATIONS MARKET FOR BLOOD SCREENING, BY COUNTRY, 2021-2028 (USD MILLION)	183
TABLE 154	EUROPE: DPCR CLINICAL APPLICATIONS MARKET FOR BLOOD SCREENING, BY COUNTRY, 2021-2028 (USD MILLION)	183
TABLE 155	ASIA PACIFIC: DPCR CLINICAL APPLICATIONS MARKET FOR BLOOD SCREENING, BY COUNTRY, 2021-2028 (USD MILLION)	184
TABLE 156	LATIN AMERICA: DPCR CLINICAL APPLICATIONS MARKET FOR BLOOD SCREENING, BY COUNTRY, 2021-2028 (USD MILLION)	184
7.3.1.4	Transplant diagnostics	185
7.3.1.4.1	Shortage of dPCR products for transplant diagnostics to limit market growth	185
TABLE 157	DPCR CLINICAL APPLICATIONS MARKET FOR TRANSPLANT DIAGNOSTICS, BY REGION, 2021-2028 (USD MILLION)	185
TABLE 158	NORTH AMERICA: DPCR CLINICAL APPLICATIONS MARKET FOR TRANSPLANT DIAGNOSTICS, BY COUNTRY, 2021-2028 (USD MILLION)	186
TABLE 159	EUROPE: DPCR CLINICAL APPLICATIONS MARKET FOR TRANSPLANT DIAGNOSTICS, BY COUNTRY, 2021-2028 (USD MILLION)	186
TABLE 160	ASIA PACIFIC: DPCR CLINICAL APPLICATIONS MARKET FOR TRANSPLANT DIAGNOSTICS, BY COUNTRY, 2021-2028 (USD MILLION)	187
TABLE 161	LATIN AMERICA: DPCR CLINICAL APPLICATIONS MARKET FOR TRANSPLANT DIAGNOSTICS, BY COUNTRY, 2021-2028	

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(USD MILLION) 187

7.3.1.5 Other clinical applications 188

TABLE 162 DPCR MARKET FOR OTHER CLINICAL APPLICATIONS, BY REGION, 2021-2028 (USD MILLION) 188

TABLE 163 NORTH AMERICA: DPCR CLINICAL APPLICATIONS MARKET FOR OTHER CLINICAL APPLICATIONS, BY COUNTRY, 2021-2028 (USD MILLION) 188

TABLE 164 EUROPE: DPCR CLINICAL APPLICATIONS MARKET FOR OTHER CLINICAL APPLICATIONS, BY COUNTRY, 2021-2028 (USD MILLION) 189

TABLE 165 ASIA PACIFIC: DPCR CLINICAL APPLICATIONS MARKET FOR OTHER CLINICAL APPLICATIONS, BY COUNTRY, 2021-2028 (USD MILLION) 189

TABLE 166 LATIN AMERICA: DPCR CLINICAL APPLICATIONS MARKET FOR OTHER CLINICAL APPLICATIONS, BY COUNTRY, 2021-2028 (USD MILLION) 190

7.3.2 RESEARCH APPLICATIONS 190

7.3.2.1 Wide usage of dPCR in genetic research to drive market 190

TABLE 167 DPCR RESEARCH APPLICATIONS MARKET, BY REGION, 2021-2028 (USD MILLION) 191

TABLE 168 NORTH AMERICA: DPCR RESEARCH APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 191

TABLE 169 EUROPE: DPCR RESEARCH APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 192

TABLE 170 ASIA PACIFIC: DPCR RESEARCH APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 192

TABLE 171 LATIN AMERICA: DPCR RESEARCH APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 193

7.3.3 FORENSIC APPLICATIONS 193

7.3.3.1 Need to reduce time & cost of forensic processes to drive market growth 193

TABLE 172 DPCR FORENSIC APPLICATIONS MARKET, BY REGION, 2021-2028 (USD MILLION) 194

TABLE 173 NORTH AMERICA: DPCR FORENSIC APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 194

TABLE 174 EUROPE: DPCR FORENSIC APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 195

TABLE 175 ASIA PACIFIC: DPCR FORENSIC APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 195

TABLE 176 LATIN AMERICA: DPCR FORENSIC APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 196

7.3.4 ENVIRONMENTAL APPLICATIONS 196

7.3.4.1 Increasing adoption of dPCR for wastewater surveillance to propel growth 196

TABLE 177 DPCR ENVIRONMENTAL APPLICATIONS MARKET, BY REGION, 2021-2028 (USD MILLION) 197

TABLE 178 NORTH AMERICA: DPCR ENVIRONMENTAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 197

TABLE 179 EUROPE: DPCR ENVIRONMENTAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 198

TABLE 180 ASIA PACIFIC: DPCR ENVIRONMENTAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 198

TABLE 181 LATIN AMERICA: DPCR ENVIRONMENTAL APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 199

7.3.5 OTHER APPLICATIONS 199

TABLE 182 OTHER DPCR APPLICATIONS MARKET, BY REGION, 2021-2028 (USD MILLION) 199

TABLE 183 NORTH AMERICA: OTHER DPCR APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 200

TABLE 184 EUROPE: OTHER DPCR APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 200

TABLE 185 ASIA PACIFIC: OTHER DPCR APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 201

TABLE 186 LATIN AMERICA: OTHER DPCR APPLICATIONS MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 201

8 DIGITAL PCR (DPCR) AND REAL-TIME PCR (QPCR) MARKET, BY END USER 202

8.1 INTRODUCTION 203

TABLE 187 QPCR END USER MARKET, BY TECHNOLOGY, 2021-2028 (USD MILLION) 203

8.2 QPCR END USERS 203

TABLE 188 QPCR MARKET, BY END USER, 2021-2028 (USD MILLION) 204

8.2.1 HOSPITALS AND DIAGNOSTIC LABORATORIES 204

8.2.1.1 Increased use of qPCR for disease diagnosis to drive segmental growth 204

TABLE 189 QPCR MARKET FOR HOSPITALS AND DIAGNOSTIC LABORATORIES, BY REGION, 2021-2028 (USD MILLION) 205

TABLE 190 NORTH AMERICA: QPCR MARKET FOR HOSPITALS AND DIAGNOSTIC LABORATORIES, BY COUNTRY, 2021-2028 (USD

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MILLION) 205

TABLE 191 EUROPE: QPCR MARKET FOR HOSPITALS AND DIAGNOSTIC LABORATORIES, BY COUNTRY, 2021-2028 (USD MILLION) 206

TABLE 192 ASIA PACIFIC: QPCR FOR HOSPITALS AND DIAGNOSTIC LABORATORIES, BY COUNTRY, 2021-2028 (USD MILLION) 206

TABLE 193 LATIN AMERICA: QPCR MARKET FOR HOSPITALS AND DIAGNOSTIC LABORATORIES, BY COUNTRY, 2021-2028 (USD MILLION) 207

8.2.2 ACADEMIC AND RESEARCH INSTITUTES 207

8.2.2.1 Propelling use of qPCR in genetic & molecular studies likely to drive segmental growth 207

TABLE 194 QPCR MARKET FOR ACADEMIC AND RESEARCH INSTITUTES, BY REGION, 2021-2028 (USD MILLION) 208

TABLE 195 NORTH AMERICA: QPCR MARKET FOR ACADEMIC AND RESEARCH INSTITUTES, BY COUNTRY, 2021-2028 (USD MILLION) 208

TABLE 196 EUROPE: QPCR MARKET FOR ACADEMIC AND RESEARCH INSTITUTES, BY COUNTRY, 2021-2028 (USD MILLION) 209

TABLE 197 ASIA PACIFIC: QPCR FOR ACADEMIC AND RESEARCH INSTITUTES, BY COUNTRY, 2021-2028 (USD MILLION) 209

TABLE 198 LATIN AMERICA: QPCR MARKET FOR ACADEMIC AND RESEARCH INSTITUTES, BY COUNTRY, 2021-2028 (USD MILLION) 210

8.2.3 PHARMACEUTICAL AND BIOTECHNOLOGY COMPANIES 210

8.2.3.1 Adoption of digital PCR in drug discovery and development to upsurge market growth 210

TABLE 199 QPCR MARKET FOR PHARMACEUTICAL AND BIOTECHNOLOGY COMPANIES, BY REGION, 2021-2028 (USD MILLION) 211

TABLE 200 NORTH AMERICA: QPCR MARKET FOR PHARMACEUTICAL AND BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2021-2028 (USD MILLION) 211

TABLE 201 EUROPE: QPCR MARKET FOR PHARMACEUTICAL AND BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2021-2028 (USD MILLION) 212

TABLE 202 ASIA PACIFIC: QPCR MARKET FOR PHARMACEUTICAL AND BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2021-2028 (USD MILLION) 212

TABLE 203 LATIN AMERICA: QPCR MARKET FOR PHARMACEUTICAL AND BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2021-2028 (USD MILLION) 213

8.2.4 CROS AND CDMOS 213

8.2.4.1 Increased outsourcing of drug development services to drive market 213

TABLE 204 QPCR MARKET FOR CROS AND CDMOS, BY REGION, 2021-2028 (USD MILLION) 214

TABLE 205 NORTH AMERICA: QPCR MARKET FOR CROS AND CDMOS, BY COUNTRY, 2021-2028 (USD MILLION) 214

TABLE 206 EUROPE: QPCR MARKET FOR CROS AND CDMOS, BY COUNTRY, 2021-2028 (USD MILLION) 215

TABLE 207 ASIA PACIFIC: QPCR MARKET FOR CROS AND CDMOS, BY COUNTRY, 2021-2028 (USD MILLION) 215

TABLE 208 LATIN AMERICA: QPCR MARKET FOR CROS AND CDMOS, BY COUNTRY, 2021-2028 (USD MILLION) 216

8.2.5 FORENSIC LABORATORIES 216

8.2.5.1 Acceptance of qPCR-based techniques for forensic studies anticipated to increase demand 216

TABLE 209 QPCR MARKET FOR FORENSIC LABORATORIES, BY REGION, 2021-2028 (USD MILLION) 217

TABLE 210 NORTH AMERICA: QPCR MARKET FOR FORENSIC LABORATORIES, BY COUNTRY, 2021-2028 (USD MILLION) 217

TABLE 211 EUROPE: QPCR MARKET FOR FORENSIC LABORATORIES, BY COUNTRY, 2021-2028 (USD MILLION) 218

TABLE 212 ASIA PACIFIC: QPCR MARKET FOR FORENSIC LABORATORIES, BY COUNTRY, 2021-2028 (USD MILLION) 218

TABLE 213 LATIN AMERICA: QPCR MARKET FOR FORENSIC LABORATORIES, BY COUNTRY, 2021-2028 (USD MILLION) 219

8.2.6 OTHER END USERS 219

TABLE 214 QPCR MARKET FOR OTHER END USERS, BY REGION, 2021-2028 (USD MILLION) 219

TABLE 215 NORTH AMERICA: QPCR MARKET FOR OTHER END USERS, BY COUNTRY, 2021-2028 (USD MILLION) 220

TABLE 216 EUROPE: QPCR MARKET FOR OTHER END USERS, BY COUNTRY, 2021-2028 (USD MILLION) 220

TABLE 217 ASIA PACIFIC: QPCR MARKET FOR OTHER END USERS, BY COUNTRY, 2021-2028 (USD MILLION) 221

TABLE 218 LATIN AMERICA: QPCR MARKET FOR OTHER END USERS, BY COUNTRY, 2021-2028 (USD MILLION) 221

8.3 DPCR END USERS 222

TABLE 219 DPCR MARKET, BY END USER, 2021-2028 (USD MILLION) 222

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8.3.1 HOSPITALS AND DIAGNOSTIC LABORATORIES

8.3.1.1 Increased use of digital PCR for genomic testing to drive segmental growth

TABLE 220 DPCR MARKET FOR HOSPITALS AND DIAGNOSTIC LABORATORIES, BY REGION, 2021-2028 (USD MILLION)

TABLE 221 NORTH AMERICA: DPCR MARKET FOR HOSPITALS AND DIAGNOSTIC LABORATORIES, BY COUNTRY, 2021-2028 (USD MILLION)

TABLE 222 EUROPE: DPCR MARKET FOR HOSPITALS AND DIAGNOSTIC LABORATORIES, 2021-2028 (USD MILLION)

TABLE 223 ASIA PACIFIC: DPCR MARKET FOR HOSPITALS AND DIAGNOSTIC LABORATORIES, BY COUNTRY, 2021-2028 (USD MILLION)

TABLE 224 LATIN AMERICA: DPCR MARKET FOR HOSPITALS AND DIAGNOSTIC LABORATORIES, BY COUNTRY, 2021-2028 (USD MILLION)

8.3.2 ACADEMIC AND RESEARCH INSTITUTES

8.3.2.1 Rise in research collaborations and increased funding likely to propel segmental growth

TABLE 225 DPCR MARKET FOR ACADEMIC AND RESEARCH INSTITUTES, BY REGION, 2021-2028 (USD MILLION)

TABLE 226 NORTH AMERICA: DPCR MARKET FOR ACADEMIC AND RESEARCH INSTITUTES, BY COUNTRY, 2021-2028 (USD MILLION)

TABLE 227 EUROPE: DPCR MARKET FOR ACADEMIC AND RESEARCH INSTITUTES, 2021-2028 (USD MILLION)

TABLE 228 ASIA PACIFIC: DPCR MARKET FOR ACADEMIC AND RESEARCH INSTITUTES, BY COUNTRY, 2021-2028 (USD MILLION)

TABLE 229 LATIN AMERICA: DPCR MARKET FOR ACADEMIC AND RESEARCH INSTITUTES, BY COUNTRY, 2021-2028 (USD MILLION)

Digital PCR (dPCR) and Real-time PCR (qPCR) Market by Product (Instruments, Reagents & Consumables, Software & Services), Application (Clinical, Research, Forensic), End User (Hospital, Diagnostic Labs, Pharma, Biotech, CROs) - Global Forecast to 2028

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