

qPCR and dPCR Instrumentation Industry Research Report 2024

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Abstracts

Real-time PCR or quantitative PCR is a well-established technology that has become the tool of choice for the rapid, sensitive quantification of nucleic acid in various biological samples. qPCR measures the accumulation of DNA during a PCR reaction. The increase in quantity of DNA at each cycle is measured by the change in intensity of a fluorescent signal. Comparison to a reference sample determines the number of original copies of template DNA in the reaction.

Digital PCR is a highly precise approach to sensitive nucleic acid detection and quantification. Each sample is partitioned into thousands of individual reactions (droplets for Droplet Digital™ PCR technology). Each partition is analyzed after end-point PCR cycling for the presence or absence of a fluorescent signal, and the absolute number of molecules present in the sample is calculated. dPCR does not require a standard curve for quantification.

Both quantitative PCR (qPCR) and digital PCR (dPCR) provide sensitive and specific detection, and precise quantification of nucleic acids. Both technologies have similarities, but they have differences that make one or the other the more adapted choice for specific applications.

According to APO Research, the global qPCR and dPCR Instrumentation market was valued at US\$ million in 2023 and is anticipated to reach US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

Global qPCR and dPCR Instrumentation key players include Thermo Fisher, Roche, QIAGEN, Bio-rad, etc. Global top four manufacturers hold a share over 70%.

North America is the largest market, with a share over 50%, followed by China and Europe, both have a share about 40 percent.

In terms of product, qPCR is the largest segment, with a share over 70%. And in terms of application, the largest application is Research Use, followed by Clinical Use, etc.

Report Scope

This report aims to provide a comprehensive presentation of the global market for qPCR and dPCR Instrumentation, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding qPCR and dPCR Instrumentation.

The report will help the qPCR and dPCR Instrumentation manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, sales volume, and average price for the overall market and the sub-segments across the different segments, by company, by Type, by Application, and by regions.

The qPCR and dPCR Instrumentation market size, estimations, and forecasts are provided in terms of sales volume (Units) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global qPCR and dPCR Instrumentation market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in

the research report include:

Thermo Fisher

Roche

QIAGEN

Bio-rad

Agilent

Bioer

Biosynex

Esco

Analytik Jena

Techne

Fluidigm

RainDance Technologies

qPCR and dPCR Instrumentation segment by Type

dPCR

qPCR

qPCR and dPCR Instrumentation segment by Application

Clinical Use

Research Use

Other

qPCR and dPCR Instrumentation Segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global qPCR and dPCR Instrumentation market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the

market.

2. This report will help stakeholders to understand the global industry status and trends of qPCR and dPCR Instrumentation and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market

5. This report helps stakeholders to gain insights into which regions to target globally

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of qPCR and dPCR Instrumentation.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of qPCR and dPCR Instrumentation manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5: Production/output, value of qPCR and dPCR Instrumentation by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: Consumption of qPCR and dPCR Instrumentation in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11: The main points and conclusions of the report.

Chapter 11: The main points and conclusions of the report.

Contents

1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
 - 1.5.1 Secondary Sources
 - 1.5.2 Primary Sources

2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 Global Market Growth Prospects
 - 2.2.1 Global qPCR and dPCR Instrumentation Market Size (2019-2030) & (US\$ Million)
 - 2.2.2 Global qPCR and dPCR Instrumentation Sales (2019-2030)
 - 2.2.3 Global qPCR and dPCR Instrumentation Market Average Price (2019-2030)
- 2.3 qPCR and dPCR Instrumentation by Type
 - 2.3.1 Market Value Comparison by Type (2019 VS 2023 VS 2030) & (US\$ Million)
 - 2.3.2 dPCR
 - 2.3.3 qPCR
- 2.4 qPCR and dPCR Instrumentation by Application
 - 2.4.1 Market Value Comparison by Application (2019 VS 2023 VS 2030) & (US\$ Million)
 - 2.4.2 Clinical Use
 - 2.4.3 Research Use
 - 2.4.4 Other

3 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

- 3.1 Global qPCR and dPCR Instrumentation Market Competitive Situation by Manufacturers (2019 Versus 2023)
- 3.2 Global qPCR and dPCR Instrumentation Sales (Units) of Manufacturers (2019-2024)
- 3.3 Global qPCR and dPCR Instrumentation Revenue of Manufacturers (2019-2024)
- 3.4 Global qPCR and dPCR Instrumentation Average Price by Manufacturers

(2019-2024)

3.5 Global qPCR and dPCR Instrumentation Industry Ranking, 2022 VS 2023 VS 2024

3.6 Global Manufacturers of qPCR and dPCR Instrumentation, Manufacturing Sites & Headquarters

3.7 Global Manufacturers of qPCR and dPCR Instrumentation, Product Type & Application

3.8 Global Manufacturers of qPCR and dPCR Instrumentation, Date of Enter into This Industry

3.9 Global qPCR and dPCR Instrumentation Market CR5 and HHI

3.10 Global Manufacturers Mergers & Acquisition

4 MANUFACTURERS PROFILED

4.1 Thermo Fisher

4.1.1 Thermo Fisher Company Information

4.1.2 Thermo Fisher Business Overview

4.1.3 Thermo Fisher qPCR and dPCR Instrumentation Sales, Revenue and Gross Margin (2019-2024)

4.1.4 Thermo Fisher qPCR and dPCR Instrumentation Product Portfolio

4.1.5 Thermo Fisher Recent Developments

4.2 Roche

4.2.1 Roche Company Information

4.2.2 Roche Business Overview

4.2.3 Roche qPCR and dPCR Instrumentation Sales, Revenue and Gross Margin (2019-2024)

4.2.4 Roche qPCR and dPCR Instrumentation Product Portfolio

4.2.5 Roche Recent Developments

4.3 QIAGEN

4.3.1 QIAGEN Company Information

4.3.2 QIAGEN Business Overview

4.3.3 QIAGEN qPCR and dPCR Instrumentation Sales, Revenue and Gross Margin (2019-2024)

4.3.4 QIAGEN qPCR and dPCR Instrumentation Product Portfolio

4.3.5 QIAGEN Recent Developments

4.4 Bio-rad

4.4.1 Bio-rad Company Information

4.4.2 Bio-rad Business Overview

4.4.3 Bio-rad qPCR and dPCR Instrumentation Sales, Revenue and Gross Margin (2019-2024)

- 4.4.4 Bio-rad qPCR and dPCR Instrumentation Product Portfolio
- 4.4.5 Bio-rad Recent Developments
- 4.5 Agilent
 - 4.5.1 Agilent Company Information
 - 4.5.2 Agilent Business Overview
 - 4.5.3 Agilent qPCR and dPCR Instrumentation Sales, Revenue and Gross Margin (2019-2024)
 - 4.5.4 Agilent qPCR and dPCR Instrumentation Product Portfolio
 - 4.5.5 Agilent Recent Developments
- 4.6 Bioer
 - 4.6.1 Bioer Company Information
 - 4.6.2 Bioer Business Overview
 - 4.6.3 Bioer qPCR and dPCR Instrumentation Sales, Revenue and Gross Margin (2019-2024)
 - 4.6.4 Bioer qPCR and dPCR Instrumentation Product Portfolio
 - 4.6.5 Bioer Recent Developments
- 4.7 Biosynex
 - 4.7.1 Biosynex Company Information
 - 4.7.2 Biosynex Business Overview
 - 4.7.3 Biosynex qPCR and dPCR Instrumentation Sales, Revenue and Gross Margin (2019-2024)
 - 4.7.4 Biosynex qPCR and dPCR Instrumentation Product Portfolio
 - 4.7.5 Biosynex Recent Developments
- 4.8 Esco
 - 4.8.1 Esco Company Information
 - 4.8.2 Esco Business Overview
 - 4.8.3 Esco qPCR and dPCR Instrumentation Sales, Revenue and Gross Margin (2019-2024)
 - 4.8.4 Esco qPCR and dPCR Instrumentation Product Portfolio
 - 4.8.5 Esco Recent Developments
- 4.9 Analytik Jena
 - 4.9.1 Analytik Jena Company Information
 - 4.9.2 Analytik Jena Business Overview
 - 4.9.3 Analytik Jena qPCR and dPCR Instrumentation Sales, Revenue and Gross Margin (2019-2024)
 - 4.9.4 Analytik Jena qPCR and dPCR Instrumentation Product Portfolio
 - 4.9.5 Analytik Jena Recent Developments
- 4.10 Techne
 - 4.10.1 Techne Company Information

- 4.10.2 Techne Business Overview
- 4.10.3 Techne qPCR and dPCR Instrumentation Sales, Revenue and Gross Margin (2019-2024)
- 4.10.4 Techne qPCR and dPCR Instrumentation Product Portfolio
- 4.10.5 Techne Recent Developments
- 4.11 Fluidigm
 - 4.11.1 Fluidigm Company Information
 - 4.11.2 Fluidigm Business Overview
 - 4.11.3 Fluidigm qPCR and dPCR Instrumentation Sales, Revenue and Gross Margin (2019-2024)
 - 4.11.4 Fluidigm qPCR and dPCR Instrumentation Product Portfolio
 - 4.11.5 Fluidigm Recent Developments
- 4.12 RainDance Technologies
 - 4.12.1 RainDance Technologies Company Information
 - 4.12.2 RainDance Technologies Business Overview
 - 4.12.3 RainDance Technologies qPCR and dPCR Instrumentation Sales, Revenue and Gross Margin (2019-2024)
 - 4.12.4 RainDance Technologies qPCR and dPCR Instrumentation Product Portfolio
 - 4.12.5 RainDance Technologies Recent Developments

5 GLOBAL QPCR AND DPCR INSTRUMENTATION MARKET SCENARIO BY REGION

- 5.1 Global qPCR and dPCR Instrumentation Market Size by Region: 2019 VS 2023 VS 2030
- 5.2 Global qPCR and dPCR Instrumentation Sales by Region: 2019-2030
 - 5.2.1 Global qPCR and dPCR Instrumentation Sales by Region: 2019-2024
 - 5.2.2 Global qPCR and dPCR Instrumentation Sales by Region: 2025-2030
- 5.3 Global qPCR and dPCR Instrumentation Revenue by Region: 2019-2030
 - 5.3.1 Global qPCR and dPCR Instrumentation Revenue by Region: 2019-2024
 - 5.3.2 Global qPCR and dPCR Instrumentation Revenue by Region: 2025-2030
- 5.4 North America qPCR and dPCR Instrumentation Market Facts & Figures by Country
 - 5.4.1 North America qPCR and dPCR Instrumentation Market Size by Country: 2019 VS 2023 VS 2030
 - 5.4.2 North America qPCR and dPCR Instrumentation Sales by Country (2019-2030)
 - 5.4.3 North America qPCR and dPCR Instrumentation Revenue by Country (2019-2030)
 - 5.4.4 U.S.
 - 5.4.5 Canada

5.5 Europe qPCR and dPCR Instrumentation Market Facts & Figures by Country

5.5.1 Europe qPCR and dPCR Instrumentation Market Size by Country: 2019 VS 2023 VS 2030

5.5.2 Europe qPCR and dPCR Instrumentation Sales by Country (2019-2030)

5.5.3 Europe qPCR and dPCR Instrumentation Revenue by Country (2019-2030)

5.5.4 Germany

5.5.5 France

5.5.6 U.K.

5.5.7 Italy

5.5.8 Russia

5.6 Asia Pacific qPCR and dPCR Instrumentation Market Facts & Figures by Country

5.6.1 Asia Pacific qPCR and dPCR Instrumentation Market Size by Country: 2019 VS 2023 VS 2030

5.6.2 Asia Pacific qPCR and dPCR Instrumentation Sales by Country (2019-2030)

5.6.3 Asia Pacific qPCR and dPCR Instrumentation Revenue by Country (2019-2030)

5.6.4 China

5.6.5 Japan

5.6.6 South Korea

5.6.7 India

5.6.8 Australia

5.6.9 China Taiwan

5.6.10 Indonesia

5.6.11 Thailand

5.6.12 Malaysia

5.7 Latin America qPCR and dPCR Instrumentation Market Facts & Figures by Country

5.7.1 Latin America qPCR and dPCR Instrumentation Market Size by Country: 2019 VS 2023 VS 2030

5.7.2 Latin America qPCR and dPCR Instrumentation Sales by Country (2019-2030)

5.7.3 Latin America qPCR and dPCR Instrumentation Revenue by Country (2019-2030)

5.7.4 Mexico

5.7.5 Brazil

5.7.6 Argentina

5.8 Middle East and Africa qPCR and dPCR Instrumentation Market Facts & Figures by Country

5.8.1 Middle East and Africa qPCR and dPCR Instrumentation Market Size by Country: 2019 VS 2023 VS 2030

5.8.2 Middle East and Africa qPCR and dPCR Instrumentation Sales by Country (2019-2030)

5.8.3 Middle East and Africa qPCR and dPCR Instrumentation Revenue by Country (2019-2030)

5.8.4 Turkey

5.8.5 Saudi Arabia

5.8.6 UAE

6 SEGMENT BY TYPE

6.1 Global qPCR and dPCR Instrumentation Sales by Type (2019-2030)

6.1.1 Global qPCR and dPCR Instrumentation Sales by Type (2019-2030) & (Units)

6.1.2 Global qPCR and dPCR Instrumentation Sales Market Share by Type (2019-2030)

6.2 Global qPCR and dPCR Instrumentation Revenue by Type (2019-2030)

6.2.1 Global qPCR and dPCR Instrumentation Sales by Type (2019-2030) & (US\$ Million)

6.2.2 Global qPCR and dPCR Instrumentation Revenue Market Share by Type (2019-2030)

6.3 Global qPCR and dPCR Instrumentation Price by Type (2019-2030)

7 SEGMENT BY APPLICATION

7.1 Global qPCR and dPCR Instrumentation Sales by Application (2019-2030)

7.1.1 Global qPCR and dPCR Instrumentation Sales by Application (2019-2030) & (Units)

7.1.2 Global qPCR and dPCR Instrumentation Sales Market Share by Application (2019-2030)

7.2 Global qPCR and dPCR Instrumentation Revenue by Application (2019-2030)

7.2.1 Global qPCR and dPCR Instrumentation Sales by Application (2019-2030) & (US\$ Million)

7.2.2 Global qPCR and dPCR Instrumentation Revenue Market Share by Application (2019-2030)

7.3 Global qPCR and dPCR Instrumentation Price by Application (2019-2030)

8 VALUE CHAIN AND SALES CHANNELS ANALYSIS OF THE MARKET

8.1 qPCR and dPCR Instrumentation Value Chain Analysis

8.1.1 qPCR and dPCR Instrumentation Key Raw Materials

8.1.2 Raw Materials Key Suppliers

8.1.3 qPCR and dPCR Instrumentation Production Mode & Process

8.2 qPCR and dPCR Instrumentation Sales Channels Analysis

8.2.1 Direct Comparison with Distribution Share

8.2.2 qPCR and dPCR Instrumentation Distributors

8.2.3 qPCR and dPCR Instrumentation Customers

9 GLOBAL QPCR AND DPCR INSTRUMENTATION ANALYZING MARKET DYNAMICS

9.1 qPCR and dPCR Instrumentation Industry Trends

9.2 qPCR and dPCR Instrumentation Industry Drivers

9.3 qPCR and dPCR Instrumentation Industry Opportunities and Challenges

9.4 qPCR and dPCR Instrumentation Industry Restraints

10 REPORT CONCLUSION

11 DISCLAIMER

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