

# Global qPCR and dPCR Instrumentation Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global qPCR and dPCR Instrumentation market size was valued at USD 1278 million in 2023 and is forecast to a readjusted size of USD 2050.3 million by 2030 with a CAGR of 7.0% during review period.

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.

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.

The Global Info Research report includes an overview of the development of the qPCR and dPCR Instrumentation industry chain, the market status of Clinical Use (dPCR, qPCR), Research Use (dPCR, qPCR), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of qPCR and dPCR Instrumentation.

Regionally, the report analyzes the qPCR and dPCR Instrumentation markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global qPCR and dPCR Instrumentation market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the qPCR and dPCR Instrumentation market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the qPCR and dPCR Instrumentation industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., dPCR, qPCR).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the qPCR and dPCR Instrumentation market.

**Regional Analysis:** The report involves examining the qPCR and dPCR Instrumentation market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the qPCR and dPCR Instrumentation market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to qPCR and dPCR Instrumentation:

**Company Analysis:** Report covers individual qPCR and dPCR Instrumentation manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards qPCR and dPCR Instrumentation. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Clinical Use, Research Use).

**Technology Analysis:** Report covers specific technologies relevant to qPCR and dPCR Instrumentation. It assesses the current state, advancements, and potential future developments in qPCR and dPCR Instrumentation areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the qPCR and dPCR Instrumentation market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

qPCR and dPCR Instrumentation market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and

value.

#### Market segment by Type

dPCR

qPCR

#### Market segment by Application

Clinical Use

Research Use

Other

#### Major players covered

Thermo Fisher

Roche

QIAGEN

Bio-rad

Agilent

Bioer

Biosynex

Esco

Analytik Jena

Techne

Fluidigm

RainDance Technologies

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe qPCR and dPCR Instrumentation product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of qPCR and dPCR Instrumentation, with price, sales, revenue and global market share of qPCR and dPCR Instrumentation from 2019 to 2024.

Chapter 3, the qPCR and dPCR Instrumentation competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the qPCR and dPCR Instrumentation breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and qPCR and dPCR Instrumentation market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of qPCR and dPCR Instrumentation.

Chapter 14 and 15, to describe qPCR and dPCR Instrumentation sales channel, distributors, customers, research findings and conclusion.

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