

# Digital PCR Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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## Abstracts

The global digital PCR market size reached US\$ 4.3 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 7.9 Billion by 2028, exhibiting a growth rate (CAGR) of 10.5% during 2023-2028.

Digital polymerase chain reaction, or digital PCR (dPCR), refers to an end-point, high-throughput absolute quantitative analytics that assists in measuring the DNA or RNA count in a given sample in a precise and sensitive way. Designed for absolute quantification and the analysis of minority sequences against a background of similar majority sequences, it is semi-quantitative as the amplified product is detected by agarose gel electrophoresis. When compared to its traditional counterparts, digital PCR uses a wide range of methods, such as droplet-based, chip-based, and beaming dPCR, to facilitate diverse applications. As a result, dPCR methods are extensively utilized in basic and diagnostic research, such as human genetic testing, pathogen detection, infectious disease testing and forensic sciences.

### Digital PCR Market Trends:

The market is primarily driven by the increasing healthcare expenditure on molecular diagnosis across the globe. This can be attributed to the rising prevalence of numerous diseases, such as genetic disorders, COVID-19, lung cancer, brain tumors, breast cancer and blood cancer. In addition to this, the escalating consumer demand for early diagnosis and treatment has resulted in extensive research and development (R&D) focusing on genetic technologies, which, in turn, is propelling the market. Besides this, continual technological advancements in PCR technologies, along with the launch of innovative devices for droplet, chip-based, beam, and crystal dPCR by major market players, are creating a positive outlook for the market. The market is further driven by the growing adoption of dPCR devices in reference laboratories for detecting genetic

mutations and identifying pathogens, thereby leading to a higher product uptake. Some of the other factors that are contributing to the market growth include favorable initiatives undertaken by governmental and federal agencies across the globe, a paradigm shift from plant-derived to genome-based drug discovery, and augmenting product applications in food microbiology and veterinary medicine.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global digital PCR market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product type, technology and application.

#### Breakup by Product Type:

- Digital PCR Equipment
- Consumables and Reagents
- Software and Services

#### Breakup by Technology:

- Droplet Digital PCR
- BEAMing Digital PCR

#### Breakup by Application:

- Clinical Diagnostics
- Forensics
- Research
- Others

#### Breakup by Region:

- North America
  - United States
  - Canada
- Asia-Pacific
  - China
  - Japan
  - India

South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Avance Biosciences Inc., Bio-Rad Laboratories Inc., Danaher Corporation, JN Medsys, OPTOLANE Technologies Inc., QIAGEN, SAGA Diagnostics AB, Standard BioTools Inc., Stilla Technologies, Sysmex Corporation and Thermo Fisher Scientific Inc.

#### Key Questions Answered in This Report:

How has the global digital PCR market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global digital PCR market?

What are the key regional markets?

What is the breakup of the market based on the product type?

What is the breakup of the market based on the technology?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global digital PCR market and who are the key players?

What is the degree of competition in the industry?

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