

# **NGS Sample Preparation Market - A Global and Regional Analysis: Focus on Product, Workflow, Therapeutic Area, Application, End User, and Region - Analysis and Forecast, 2021-2026**

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## **Abstracts**

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Market Report Coverage - NGS Sample Preparation

Market Segmentation

Product (Consumables, Standalone Automation Instruments, Automated Workstation, Accessories and Components)

Workflow (Library Preparation, Target Enrichment, Sample Extraction/Isolation, Fragmentation, Sample Quantification, Library Quantification, Quality Control (QC), and Pooling)

Therapeutic Area (Oncology, Infectious Diseases, Human Genetics/Population Genetics, and Others)

Application (DNA Sequencing, Whole Genome Sequencing, RNA Sequencing, Methylation Sequencing, and Others)

End User (Hospitals and Clinics, Academic and Research Institutions, Pharmaceutical and Biotechnology Companies, and Others)

## Regional Segmentation

North America: U.S., Canada

Europe: Germany, France, U.K., Italy, Spain, Netherlands, Denmark, Belgium, Switzerland, and Rest-of-Europe

Asia-Pacific: China, Japan, India, South Korea, Australia, Singapore, and Rest-of-Asia-Pacific

Latin America: Brazil, Mexico, and Rest-of-Latin America

Rest-of-the-World

## Market Growth Drivers

Increasing Use of NGS for Genetic Disorders

Technological Advancements in NGS Sample Preparation Methods

Rising Research Funding in the Field of Genomics

## Market Challenges

High Cost of Automated NGS Sample Preparation Instruments

Dearth of Skilled Professionals and Lack of Infrastructure in Emerging Countries

Stringent Regulatory Standards

## Market Opportunities

Adoption of Automated NGS Sample Preparation in the Emerging Markets

Rising Direct-to-Consumer Testing

## Key Companies Profiled

Agilent Technologies, Inc., Aurora Biomed Inc., Danaher, Bio-Rad Laboratories, Inc., Eppendorf SE, Opentrons, BGI Group, Promega Corporation, Oxford Nanopore Technologies plc., F. Hoffmann-La Roche Ltd, Tecan Trading AG, Hamilton Company, PerkinElmer Inc., Illumina, Inc., Thermo Fisher Scientific Inc., New England Biolabs, QIAGEN, Pacific Biosciences of California, Inc.

## Key Questions Answered in this Report:

How is NGS sample preparation revolutionizing oncology?

What are the major market drivers, challenges, and opportunities in the global NGS sample preparation market?

What are the underlying structures resulting in the emerging trends within the global NGS sample preparation market?

How is the COVID-19 pandemic impacting the global NGS sample preparation ecosystem?

What are the key development strategies that are being implemented by the major players in order to sustain themselves in the competitive market?

What are the key regulatory implications in developed and developing regions pertaining to the use of NGS sample preparation products?

What are the potential entry barriers expected to be faced by the companies willing to enter a particular region?

How is each segment of the market expected to grow during the forecast period 2021-2026, and what is the anticipated revenue to be generated by each of the segments? Following are the segments:

Product (Consumables, Standalone Automation Instruments, Automated Workstation, Accessories and Components)

Workflow (Library Preparation, Target Enrichment, Sample Extraction/Isolation, Fragmentation, Sample Quantification, Library

Quantification, Quality Control (QC), and Pooling)

Application (DNA Sequencing, Whole Genome Sequencing, RNA Sequencing, Methylation Sequencing, and Others)

Therapeutic Area (Oncology, Infectious Diseases, Human Genetics/Population Genetics, and Others)

End User (Hospitals and Clinics, Academic and Research Institutions, Pharmaceutical and Biotechnology Companies, and Others)

Region (North America, Europe, Asia-Pacific, Latin America, and Rest-of-the-World)

What are the growth opportunities for the NGS sample preparation companies in the region of their operation?

Who are the leading players with significant offerings in the global NGS sample preparation market?

Which companies are anticipated to be highly disruptive in the future, and why?

## Market Overview

The growth of the NGS sample preparation market is expected to be driven by the widespread use of NGS in diagnostic laboratories, which has enhanced the accuracy of genetic diagnostics with high consistency. Advanced genetic diagnostic techniques are being used for predictive genetic testing and prenatal diagnosis. As the number of people suffering from genetic disorders is increasing, the efficiency and consistency of the diagnostic screening tests are becoming more crucial. Faster results with minimum errors are required to effectively screen a genetic disorder. The automated NGS sample preparation enhances the consistency and throughput of sample preparation for genetic sequencing. The current market for NGS sample preparation is majorly dominated by manufacturers and service providers such as Thermo Fisher Scientific Inc, Illumina, Inc., BGI Group, Agilent Technologies, Inc., Aurora Biomed, Inc., F. Hoffmann-La Roche Ltd, OPENTRONS, Promega Corporation, Qiagen N.V., Bio-Rad Laboratories, Inc., Eppendorf AG, Oxford Nanopore Technologies plc., Tecan Trading AG, Hamilton Company, New England Biolabs (NEB), Danaher Corporation, and PerkinElmer, Inc.

The global NGS sample preparation market is projected to reach \$3,279.3 million by 2026, growing from \$1,468.9 million in 2020, at a CAGR of 14.24% during the forecast period 2021-2026.

Improvements in diagnostic methods for the diagnosis of genetic and chronic diseases are highly prioritized all across the globe. There are lots of advancements pertaining to the effective diagnosis of genetic diseases; however, there remains a lack of adoption of technologically advanced equipment in emerging economies. Most of the developing economies in the world still opt for manual instruments in the field of research and diagnostics on account of financial feasibility.

### Competitive Landscape

The growth of the NGS sample preparation market can be majorly attributed to major manufacturers of NGS sample preparation products, along with the service providers, who are actively involved in undertaking significant business strategies to translate success in research and development into the commercial clinical setting. Enterprises, led by the market juggernauts, are frequently updating and developing their respective product and service portfolios with innovative solutions to sustain the high competition in the market. Additionally, competitors' activities also include several partnerships, collaborations, and joint ventures to expand individual product and service portfolios along with the global footprint. Based on region, North America holds the largest share in the market owing to the technological advancements in NGS sample preparation methods, improved healthcare infrastructure, rise in per capita income, and improvised reimbursement policies in the region. However, the Asia-Pacific region is anticipated to grow at the fastest CAGR during the forecast period 2021-2026.

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