

# **Next Generation Sequencing Sample Preparation Market Size, Trends, Analysis, and Outlook By Products & Services (Workstations/Instruments, Reagents & Consumables, Services), By Workflow (DNA Fragmentation & Library Preparation, Target Enrichment, QC), By Sample Type (DNA, RNA), By Method (Manual Sample Preparation, Microfluidic Sample Preparation, Automated Liquid Handling-based Sample Preparation), By Application (Diagnostics, Drug Discovery, Agricultural & Animal Research, Others), By End-user (Academic Institutes & Research Centers, Hospitals & Clinics, Pharma & Biotech Companies, Others), by Region, Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global Next Generation Sequencing Sample Preparation market size is poised to register 14.24% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Next Generation Sequencing Sample Preparation market across By Products & Services (Workstations/Instruments, Reagents & Consumables, Services), By Workflow (DNA Fragmentation & Library Preparation, Target Enrichment, QC), By Sample Type (DNA, RNA), By Method (Manual Sample Preparation, Microfluidic Sample Preparation, Automated Liquid Handling-based Sample Preparation), By Application (Diagnostics,

Drug Discovery, Agricultural & Animal Research, Others), By End-user (Academic Institutes & Research Centers, Hospitals & Clinics, Pharma & Biotech Companies, Others).

The Next Generation Sequencing Sample Preparation Market is witnessing growth driven by the increasing adoption of next-generation sequencing (NGS) technologies in genomic research, clinical diagnostics, and precision medicine applications, and the demand for efficient and high-quality sample preparation solutions. Next-generation sequencing sample preparation involves the extraction, purification, and quantification of nucleic acids from biological samples, including DNA, RNA, and circulating cell-free DNA, to prepare them for high-throughput sequencing on NGS platforms. Key trends shaping its future include the development of integrated and automated sample preparation systems for streamlined and scalable NGS workflows, the optimization of sample extraction and library preparation protocols for diverse sample types and input amounts, and the customization of sample preparation kits and reagents for specific sequencing applications, sequencing depths, and experimental objectives. Moreover, factors such as the increasing prevalence of genetic diseases and cancer, the expansion of biobanking and precision oncology initiatives, and the advancements in nucleic acid extraction and purification technologies are expected to drive market growth in 2024 and beyond.

Next Generation Sequencing Sample Preparation Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Next Generation Sequencing Sample Preparation market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Next Generation Sequencing Sample Preparation survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Next Generation Sequencing Sample Preparation industry.

Key market trends defining the global Next Generation Sequencing Sample Preparation demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption

patterns, and widening distribution channels continue to play a major role.

## Next Generation Sequencing Sample Preparation Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Next Generation Sequencing Sample Preparation industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Next Generation Sequencing Sample Preparation companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

## Key strategies adopted by companies within the Next Generation Sequencing Sample Preparation industry

Leading Next Generation Sequencing Sample Preparation companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Next Generation Sequencing Sample Preparation companies.

## Next Generation Sequencing Sample Preparation Market Study- Strategic Analysis Review

The Next Generation Sequencing Sample Preparation market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage

strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

### Next Generation Sequencing Sample Preparation Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Next Generation Sequencing Sample Preparation industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

### Next Generation Sequencing Sample Preparation Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

### North America Next Generation Sequencing Sample Preparation Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Next Generation Sequencing Sample Preparation market segments. Similarly, Strong end-user demand is encouraging Canadian Next Generation Sequencing Sample Preparation companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Next Generation Sequencing Sample Preparation market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

## Europe Next Generation Sequencing Sample Preparation Market Size Outlook- Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Next Generation Sequencing Sample Preparation industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Next Generation Sequencing Sample Preparation market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

## Asia Pacific Next Generation Sequencing Sample Preparation Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Next Generation Sequencing Sample Preparation in Asia Pacific. In particular, China, India, and South East Asian Next Generation Sequencing Sample Preparation markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

## Latin America Next Generation Sequencing Sample Preparation Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

## Middle East and Africa Next Generation Sequencing Sample Preparation Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Next Generation Sequencing Sample Preparation market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Next Generation Sequencing Sample Preparation.

### Next Generation Sequencing Sample Preparation Market Company Profiles

The global Next Generation Sequencing Sample Preparation market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are 10x Genomics, Agilent Technologies Inc, Becton, BGI, Bio-Rad Laboratories Inc, Danaher, Dickinson and Company, Eurofins Scientific, F. Hoffmann-La Roche Ltd, Illumina Inc, Medgenome, Merck KGAA, New England Biolabs, Novogene Co. Ltd, Oxford Nanopore Technologies PLC, PacBio, PerkinElmer Inc, Promega Corp, Psomagen, QIAGEN, Swift Biosciences Inc, Sysmex Corp, Takara Bio Inc, Tecan Trading AG, Thermo Fisher Scientific Inc, Zymo Research Corp

### Recent Next Generation Sequencing Sample Preparation Market Developments

The global Next Generation Sequencing Sample Preparation market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

### Next Generation Sequencing Sample Preparation Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

Market Segmentation:

By Products & Services

Workstations/Instruments

Reagents & Consumables

Services

By Workflow

DNA Fragmentation & Library Preparation

Target Enrichment

QC

By Sample Type

DNA

RNA

By Method

Manual Sample Preparation

Microfluidic Sample Preparation

Automated Liquid Handling-based Sample Preparation

By Application

Diagnostics

Drug Discovery

Agricultural & Animal Research

Others

By End-User

Academic Institutes & Research Centers

Hospitals & Clinics

Pharma & Biotech Companies

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)



## Companies

10x Genomics

Agilent Technologies Inc

Becton

BGI

Bio-Rad Laboratories Inc

Danaher

Dickinson and Company

Eurofins Scientific

F. Hoffmann-La Roche Ltd

Illumina Inc

Medgenome

Merck KGAA

New England Biolabs

Novogene Co. Ltd

Oxford Nanopore Technologies PLC

PacBio

PerkinElmer Inc

Promega Corp

Psomagen

QIAGEN

Swift Biosciences Inc

Sysmex Corp

Takara Bio Inc

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Workstations/Instruments

Reagents & Consumables

Services

By Workflow

DNA Fragmentation & Library Preparation

Target Enrichment

QC

By Sample Type

DNA

RNA

By Method

Manual Sample Preparation

Microfluidic Sample Preparation

Automated Liquid Handling-based Sample Preparation

By Application

Diagnostics

Drug Discovery

Agricultural & Animal Research

Others

By End-User

Academic Institutes & Research Centers

Hospitals & Clinics

Pharma & Biotech Companies

Others

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### **10X GENOMICS**

Agilent Technologies Inc  
Becton  
BGI  
Bio-Rad Laboratories Inc  
Danaher  
Dickinson and Company

Eurofins Scientific  
F. Hoffmann-La Roche Ltd  
Illumina Inc  
Medgenome  
Merck KGAA  
New England Biolabs  
Novogene Co. Ltd  
Oxford Nanopore Technologies PLC  
PacBio  
PerkinElmer Inc  
Promega Corp  
Psomagen  
QIAGEN  
Swift Biosciences Inc  
Sysmex Corp  
Takara Bio Inc  
Tecan Trading AG  
Thermo Fisher Scientific Inc  
Zymo Research Corp

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