

Global Sample Preparation Market Size Study & Forecast, By Product (Instruments, Consumables, Accessories, Other Sample Preparation products) by Application (Genomics, Proteomics, Epigenomics and Epigenetics, Other Applications) by End-Users (Pharmaceutical & Biotechnology Industry, Research and Academic Institutes, Food and Beverage industry, Other End Users) and Regional Analysis, 2023-2030

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Abstracts

Global Sample Preparation Market is valued at approximately USD xx billion in 2022 and is anticipated to grow with a healthy growth rate of more than 5.5% over the forecast period 2023-2030. Sample Preparation refers to the process of carefully selecting, handling, and treating a sample to make it suitable for analysis in scientific experiments or testing. This process is crucial in various fields such as chemistry, biology, environmental science, and material science, where accurate and reliable results depend on the quality of the sample being analyzed. The Sample Preparation market is expanding because of factors such as the growing demand for tumor genomics-based sample preparations and rising healthcare expenditure. As a result, the demand for Sample Preparation has progressively increased in the international market during the forecast period 2023-2030.

Tumor genomics plays a crucial role in advancing precision medicine, where treatments are tailored to the genetic makeup of an individual's tumor. Sample preparation techniques ensure the quality and integrity of genetic material extracted from tumor samples, enabling accurate genomic analysis. The better the sample preparation, the more reliable the genomic data, which is vital for making informed treatment decisions.

According to Statista, the global tumor genomics market accounts for USD 8131 million and is projected to reach up to USD 16287 million by the year 2028. Another important factor that drives the Sample Preparation market is increasing healthcare expenditure. Healthcare expenditure often translates into increased funding for medical research. This can lead to advancements in diagnostic techniques, treatments, and drug development, all of which rely heavily on sample preparation techniques to analyze biological samples such as blood, urine, tissue, etc. More investment in R&D can spur innovation in sample preparation technologies, leading to more efficient, sensitive, and cost-effective methods. In addition, as per Statista, in 2019, the global healthcare expenditure was 9.82% of the total GDP and the healthcare expenditure increased significantly and the share reached 10.71% in 2022. Moreover, rising demand for automated systems for sample preparation of chromatography and increasing innovation in proteomics is anticipated to create a lucrative growth opportunity for the market over the forecast period. However, the high initial cost of sample preparation techniques and lack of technical expertise are going to impede overall market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Sample Preparation Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to healthcare spending and the growing number of medical research trials in the region. Medical research often involves a diverse range of sample types, each requiring specific preparation methods. The study could require analyzing genetic material from cells, proteins from blood samples, or metabolites from urine. As the scope of medical research expands, so does the need for specialized sample preparation techniques tailored to different sample types. The region's dominant performance is anticipated to propel the overall demand for Sample Preparation. Furthermore, Asia Pacific is expected to grow fastest during the forecast period, owing to factors such as increasing adoption of sequencing for the development of personalized medicines in the region. Personalized medicine relies heavily on understanding an individual's genetic makeup, so there's a higher demand for high-quality samples. Sample preparation techniques play a crucial role in ensuring that the samples collected for sequencing are of sufficient quality and quantity.

Major market players included in this report are:

Thermo Fisher Scientific Inc.

PerkinElmer Inc.

Agilent Technologies Inc.

Danaher Corporation

Hamilton Company

Sigma-Aldrich Corporation

Norgen Biotek Corporation

Millipore Corporation

Bio-Rad Laboratories, Inc.

F. Hoffmann-La Roche Ltd.

Recent Developments in the Market:

In December 2023, Thermo Fisher Scientific Inc. launched two new products, the Thermo Scientific KingFisher Apex Dx, an automated nucleic acid purification instrument, and the Applied Biosystems MagMAX Dx Viral/Pathogen NA Isolation Kit, which isolates and purifies viral and bacterial pathogens from respiratory specimens. These products work together to provide laboratories with automated sample preparation solutions that are in vitro diagnostic (IVD) and in vitro diagnostic regulation (IVD-R) authorized, giving them more confidence in downstream outcomes.

Global Sample Preparation Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Product, Application, End-Users, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define the market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

by Product

Instruments

Consumables

Accessories

Other Sample Preparation products

by Application

Genomics

Proteomics

Epigenomics and Epigenetics

Other Applications

by End-Users

Pharmaceutical & Biotechnology Industry

Research and Academic Institutes

Food and Beverage industry

Other End Users

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

RoLA

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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