

# **Sample Preparation Market by Product (Instruments (Workstations, Liquid Handling Systems), Consumables (Kits, Filters)), Application (Genomics, Proteomics), End Users (Pharmaceutical and Biotechnology, Food and Beverage) - Global Forecast to 2021**

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## **Abstracts**

The sample preparation market is poised to reach USD 7,203.2 million by 2021 from USD 5,512.2 in 2016, growing at a CAGR of 5.5% during the forecast period of 2016 to 2021.

Sample preparation involves conversion of samples into a format which can be directly placed in the analytical instruments for analysis. The conversion process ranges from simple 'dilute and shoot' methods to complex multi-stage sample handling activities. The number and type of steps differ according to the phase of the starting material. In addition, the process varies depending on the type of sample to be analyzed. The commonly involved sample preparation process for majority of sample type includes steps such as extraction, purification, and isolation. Solid Phase Extraction (SPE), Liquid-Liquid Extraction (LLE), and QuEChERS (Quick, Easy, Cheap, Effective, Rugged and Safe) are the popular sample preparation techniques.

The Consumables segment is expected to account for the largest share of the sample preparation market, by product, in 2016. Consumables segment comprising kits, columns, tubes, filters, plates and other consumables contribute to the largest share of the consumables segment as these are recurring items in a an attribute to repeat purchases. The genomics segment is expected to account for the largest share of the sample preparation market, by application, in 2016. The growing adoption of automated

technologies that provide a large number of benefits over manual processes is the major factor driving the market for sample preparation in genomics. The pharmaceutical and biotechnology industries segment is expected to dominate the sample preparation market, by end user, in 2016. Pharmaceutical and biotechnology industries use sample preparation to achieve their research goals, such as the development of new cancer treatments or development of treatments for rare diseases.

North America is expected to account for the largest share in the sample preparation market in 2016, followed by Europe, Asia-Pacific, and the Rest of the World (RoW). The large share of North America region can be attributed to the presence of increase in laboratory spending, collaborations between vendors, large scale production of genetically modified crops in the U.S. In addition, initiation of Genomic Applications Partnership Program (GAPP) as well as the growing food testing industry in Canada. Asia-Pacific is expected to witness highest growth rate in the forecast period, mainly due to increasing concerns related to the presence of arsenic in food in Japan, government investments in the biomedical and biotechnology industries in China, and increasing government initiatives and growing pharmaceutical industry in India.

The sample preparation market witnesses high competitive intensity as there are several big and many small firms with similar product offerings. These companies adopt various strategies (new product launch, agreements, partnerships, collaborations acquisitions, and expansions) to increase their market shares and to establish a strong foothold in the global market.

Prominent players in the sample preparation market include Agilent Technologies, Inc. (U.S.), Danaher Corporation (U.S.), Illumina, Inc. (U.S.), QIAGEN N.V. (The Netherlands), PerkinElmer, Inc. (U.S.), Bio-Rad Laboratories, Inc. (U.S.), Thermo Fisher Scientific, Inc. (U.S.), Norgen Biotek Corporation (Canada), Hamilton Company (U.S.), Tecan Group Ltd. (Switzerland), Merck (U.S.), Promega Corporation (U.S.), and Roche Applied Science (U.S.).

#### Reasons to Buy the Report:

The report will enrich both established firms as well as new entrants/smaller firms to gauge the pulse of the market, which in turn will help them garner a greater market share. Firms purchasing the report could use any one or a combination of the below-mentioned five strategies (market penetration, product development/innovation, market development, market diversification, and competitive assessment) for strengthening their market shares. The report provides insights on the following pointers:

**Market Penetration:** Comprehensive information on the product portfolios of the top players in the sample preparation market. The report analyzes the market based on product, application and end user

**Product Development/Innovation:** Detailed insights on upcoming technologies, research and development activities, and new product launches in the sample preparation market

**Market Development:** Comprehensive information about lucrative emerging markets. The report analyzes the markets for various sample preparation across regions

**Market Diversification:** Exhaustive information about new products, untapped regions, recent developments, and investments in the sample preparation market

**Competitive Assessment:** In-depth assessment of market shares, strategies, products, distribution networks, and manufacturing capabilities of the leading players in the sample preparation market

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## About

The global sample preparation market is segmented on the basis of product, application, end users, and geography. Based on products, the global sample preparation market includes instruments, consumables, accessories, and sample preparation kits. Instruments are further classified into sample preparation workstations, liquid handling systems, extraction systems, and others. Liquid handling systems are further classified into liquid handling workstations, pipetting systems, reagent dispensers, microplate washers, and others. Other instruments include tissue lyser and tissue disruptor.

Sample preparation consumables comprise filters, columns, tubes, plates, and others (syringes and tips). Accessories include caps, tip carriers, disposable bags/box, rod covers, adapters, tip and tube holders, and plate carriers. Sample preparation kits are further segmented into Purification kits (DNA, RNA, Nucleic Acid, and Protein), Extraction kits (DNA, RNA, Nucleic Acid, and Protein), Isolation kits (DNA, RNA, Nucleic Acid, and Protein), and others (Cell lysis kits and Clean-up kits).

Based on applications, the global sample preparation market is broadly categorized into genomics, proteomics, epigenomics, and others (metabolomics). Based on geography, the market is divided into North America, Europe, Asia, and the Rest of World (RoW). The market by end users is segmented into molecular diagnostics, pharmaceuticals & biotechnology, applied testing, and academic research institutes. In 2013, molecular diagnostics accounted for the largest share of the global life sciences sample preparation market, by end users.

A number of factors such as technological advancements in sample preparation workstations, global alliances amongst leading research institutes to boost drug discovery, increasing life science and R&D spending, and technological advancements in analytical instruments are propelling the growth of the sample preparation market. However, difficulty in developing 'one-size-fits-all' sample preparation kits and high costs of workstations are the major factors hindering the growth of this market.

The major players in the global sample preparation market include Agilent Technologies, Inc. (U.S.), Danaher Corporation (U.S.), Illumina, Inc.(U.S.), QIAGEN N.V.(The Netherlands), PerkinElmer, Inc. (U.S.), Bio-Rad Laboratories, Inc. (U.S.), Thermo Fisher Scientific, Inc. (U.S.), Sigma-Aldrich Corporation (U.S), Norgen Biotek Corporation (Canada), Hamilton Company (U.S.), Tecan Group Ltd. (Switzerland),



Millipore Corporation (U.S.), and Roche Applied Science (U.S.).

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