

## **Autosamplers Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)**

Market Report | 2023-01-23 | 110 pages | Mordor Intelligence

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### **Report description:**

The Autosamplers Market is expected to register a CAGR of 6.8% over the forecast period.

The market has had a positive impact due to the pandemic. Due to an increase in the infectious disease COVID-19, there has also been a positive effect and growth in demand for various services, including chromatography technologies. Researchers are seeking both vaccination and treatment. Chromatography is a powerful laboratory-based analytical method that researchers are employing as the scientific community strives to understand the Sars-CoV-2 virus and develop better therapies, vaccines, and diagnostic tools to aid in the fight against the COVID-19 pandemic. For instance, in a study published by Clinical Chemistry and Laboratory Medicine in June 2020, liquid chromatography coupled with mass spectrometry was used to quantify redeliver in the blood plasma of a COVID-19 patient and, thus, provide data on its efficacy as a treatment for SARS-CoV-2.

Furthermore, a product of cholesterol oxidation was helpful in the combat against SARS-CoV-2, according to multiple published papers. A few patients responded well to the emergency antiviral drug, but SARS-CoV-2 needed a secure and efficient antiviral medication. The expanding significance of chromatographic systems in medical facilities, academic settings, and commercial settings demonstrates the technique's massive contribution to the development of research across various fields. For instance, according to an article published by Encyclopedia Journal, in September 2022, a solid foundation for an analytical platform capable of supporting the demanding requirements of the postgenomic and post-COVID-19 era is provided by a variety of powerful chromatographic instruments that are readily available and have extremely high sensitivity, resolution, and identification capacity. Thus, the increase in demand for various chromogenic systems in medical facilities due to the requirements in the postgenomic and post-COVID-19 era is positively impacting the autosampler market.

Specific factors driving the market growth include autosamplers' advantages, chromatography's growing importance in drug approval, and increasing food safety concerns. Autosamplers can do more than merely switch between samples to analyze them. They are designed to support the flexible and effective workflow in all areas, from lowering process order and sample information transcription errors to sophisticated sample cleaning and protection for analysis. According to an article published by ModuVision

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Technologies in September 2021, the two main reasons autosamplers are utilized are efficiency since many samples may be handled without the influence of lab employees and quality. The pharmaceutical industry is conducting extensive research to create a new drug, driving the demand for the finished product.

Furthermore, according to the International Journal of Pharmaceutical Research and Applications published in June 2022, chromatography is accepted as a susceptible and effective separation method. Chromatography, used in all research labs, the pharmaceutical industry, academic institutions, etc., is the foundation of separation science. Developing new drugs necessitates using an appropriate technique that enables scientists to evaluate drug molecules in the most exact, precise, and straightforward manner possible. Due to its higher product reliability, robustness, resolution, speed, and sensitivity, chromatographic procedures promote the productivity of chemical and instrumentation processes by providing more information. Thus, chromatography's increasing usage and growing importance in drug development is expected to accelerate market growth.

However, the lack of skilled professionals and limitations in the budget of small and mid-size market players are expected to restrain the market growth.

## Autosamplers Market Trends

### Pharmaceutical and Biotechnology Companies are Expected to Witness High Growth Over the Forecast Period

Autosamplers replace manual sampling and injection by automatically selecting a sample and inserting it into the inlets of the instrument. Factors driving the segment growth include the advantages of autosamplers in the companies and the growing importance of chromatography in drug approval. According to an article published by Rasayanika, in October 2020, chromatography techniques are used by the pharmaceutical industry for a variety of tasks, including identifying and analyzing samples for the presence of chemicals or trace elements, preparing large quantities of highly pure materials, separating chiral compounds, determining the purity of mixtures, identifying unknown compounds present, and also in drug development. According to Agilent Technologies, with the support of the highly adaptable High-performance liquid chromatography (HPLC) technique, (bio-)pharmaceutical researchers and production facilities can comprehensively characterize possible drug or treatment options and guarantee that the medications are produced securely and reliably. Thus, these features are expected to drive segmental growth in the market.

Moreover, with the increasing expenditure on R&D, this market in the pharmaceutical industry is expected to attain good growth over the forecast period. According to an article published by EP News Bureau, in February 2021, for companies investing in research for new treatments, chemical entities, or new biological entities to battle outbreaks, the government looked into a 200 percent weighted deduction and a special allocation for R&D in biopharmaceuticals. This increased foreign R&D investment even further. Such steps are investigated in upcoming grants or as a series of mini budgets supporting strategic development within a supportive regulatory environment. Advanced products by the key players are expected to promote segmental growth. For instance, ESI DX Autosamplers feature chemically inert construction and deliver contamination-free sampling for Thermo Scientific ICP-OES and ICP-MS instruments. Such product development by key players is expected to promote segmental growth in the market.

Therefore, the factors mentioned above are expected to drive segmental growth in the market during the forecast period.

### North America is Expected to Dominate the Autosamplers Market

North America has dominated the global market studied, owing to the increased funding in R&D by the major market players, especially in the United States (U.S.). For instance, according to The State of U.S. Science and Engineering 2022, the United States spent USD 607.5 billion in R&D activity, with USD 101.1 billion (17%) of annual R&D spending classified as primary research.

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Similarly, the majority of R&D in the United States is funded by the business sector, and over 98% of that financing goes toward supporting commercial R&D activities. The second-largest source of R&D financing, accounting for around 21%, is the U.S. federal government, which funds research and development across all industries. The increase in funding for R&D in the U.S. is expected to drive the market.

Increasing product launches in the region are expected to drive the market in the region. For instance, in March 2022, Thermo Fisher Scientific launches a new GC/GC-MS instrument portfolio for increased efficiency. The GC/GC-MS instrument portfolio, including the new Thermo Scientific TRACE 1600 Series Gas Chromatograph, Thermo Scientific AI/AS 1610 Liquid Autosampler, Thermo Scientific ISQ 7610 Single Quadrupole GC-MS, and Thermo Scientific TSQ 9610 Triple Quadrupole GC-MS/MS, now features technological advances that enhance usability and productivity. Such product launches by various key players are expected to increase R&D investments into the pharmaceutical industry for drug discovery as well as production in the food & beverage industry, which in turn increased the demand for autosamplers in the region.

#### Autosamplers Market Competitor Analysis

The autosamplers market is consolidated in nature due to the presence of a few companies operating globally as well as regionally. The competitive landscape includes an analysis of a few international as well as local companies which hold the market shares and are well known, including Agilent Technologies, Bio-Rad Laboratories, Inc., Gilson, Inc., PerkinElmer, Inc., Restek Corporation, Scion Instruments, Shimadzu Corporation, Thermo Fisher Scientific, Waters Corporation, among others, hold the substantial market share in the Autosamplers market., among others.

#### Additional Benefits:

- <li> The market estimate (ME) sheet in Excel format </li>
- <li> 3 months of analyst support </li>

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