

High-Performance Liquid Chromatography (Hplc) Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 120 pages | Mordor Intelligence

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Report description:

The High-Performance Liquid Chromatography (HPLC) Market is projected to register a CAGR of 4.8% during the forecast period (2023 - 2028).

The healthcare system has witnessed enormous challenges as a result of the COVID-19 pandemic. All outpatient treatments were postponed or restricted during the COVID-19 pandemic to reduce the risk of viral transmission as most chronic therapies were regarded as non-urgent. However, research and development focusing on the SARS-CoV-2 virus and the identification of potential drug candidates have been on the rise during the pandemic. HPLC is an important technique used in drug formulation laboratories for the identification and analysis of specific components in a drug mixture. An article titled "A stability indicating RP-HPLC method for determination of the COVID-19 drug molnupiravir applied using nanoformulations in permeability studies" published in the Journal of Pharmaceutical and Biomedical Analysis in May 2022 studied the permeability quantitation of Molnupiravir in nanoformulations. The study established that the reversed-phase HPLC method is more applicable for the routine analysis of Molnupiravir compared to the Liquid Chromatography - Mass Spectrometry / Mass Spectrometry methods. The rise in the applications of the HPLC systems in the COVID-19 study is propelling the growth of the studied market in the forecast period.

The recent advancements in the HPLC studies are adding to the growth of the market. According to an article published in the journal of Current Opinion in Chemical Engineering in June 2021 titled "Recent advances in modeling and control of liquid chromatography", HPLC is highly versatile, used for fast analysis and high yield separation at both preparative and process scale and is the most common separation method in the production of pharmaceutical and biopharmaceutical products. The article indicated that the combination of computational and experimental work can help the adoption of more complex models and reduce the simulation time and will facilitate faster screening of multidimensional operation spaces for parameter estimation and optimization. The advances made in the HPLC sector will likely add to the market growth in the forecast period.

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Several key market players have also been interested in the development and manufacturing of innovative HPLC-based systems for various laboratory functions, including diagnostics. For instance, in June 2021, Trivitron Healthcare launched HPLC-based diagnostic solutions, the HbA1c analyzers used for monitoring diabetes, thalassemia, and hemoglobin variants. The fully automated NANO H5 analyzer can process five samples at a time. The NANO H110 is a compact, automated HPLC analyzer that has a dual test mode for HbA1c test and Hb Variant detection, with a high sample loading capacity of 110 samples at a time. Such innovations are expected to propel market growth in the study period. However, the lack of skilled personnel and the high cost of the HPLC systems are likely to hinder the market growth in the forecast period.

High-Performance Liquid Chromatography Market Trends

Consumables Segment is Expected to Hold a Major Market Share in the High-Performance Liquid Chromatography (HPLC) Market

The consumables hold the major segment in the High-Performance Liquid Chromatography (HPLC) market. HPLC consumables are the columns, reagents, tubes, and other products that are used for high-performance liquid chromatography techniques. Due to the advancements in column technologies and pumps, the segment is anticipated to grow at significant rates. The pharma and biopharmaceutical companies are anticipated to grow at a significant rate owing to the increasing need for the development of new therapeutics to address the growing prevalence of chronic diseases around the world.

The wide application of HPLC in pharmaceutical and biopharmaceutical companies' research is likely to add to the growth of the consumables section of the HPLC market. An article titled "Application Of HPLC In Pharmaceutical Industry" published by Edubirdie in February 2022 indicated that HPLC plays a critical role in the pharmaceutical industry as it is used to test the products and detect the raw ingredient used to make them. The article discussed the various platforms in which the HPLC studies are employed, such as pharmaceutical applications, Food and Flavor analysis, Environmental applications, Forensics applications, Clinical applications, Pharmaceutical impurity profiling analysis, and Pharmaceutical drug discovery analysis. The large number of applications in which the HPLC is used is adding to the growth of the studied market in the forecast period.

Recent advances made by the market players in the research and development of novel HPLC techniques are also adding to the growth of the market. For instance, in February 2022, Thermo Fisher Scientific launched a new portfolio of high-performance chromatography and mass spectrometry consumables called SureStart, which includes a new collection of caps, vials, inserts, kits, well plates, and mats. The Thermo Scientific SureStart portfolio is compatible with all add-on and chromatography autosamplers, allowing analysts to use the new portfolio in all systems. Such research and developments in the High-Performance Liquid Chromatography (HPLC) techniques are expected to propel the market growth over the forecast period. Thus, owing to the abovementioned factors, the consumables segment is expected to project significant growth over the forecast period.

North America is Expected to Hold a Significant Share in the Market Over the Forecast Period

The rise in the adoption of highly advanced techniques and systems in the manufacturing of High-Performance Liquid Chromatography (HPLC) and the technological advancements made in chromatographic studies is expected to boost the growth of the market in the North American region. The high awareness among the research personnel on the availability of innovative chromatography studies in the market contributes to the high market growth in the region.

Various governmental research organizations in the United States use the HPLC technique in the analysis of specific components in a drug mixture or similar components. An article by the United States Environmental protection Agency updated in May 2021 on the High-Performance Environmental Sampling and Analytical Methods (ESAM) Program focused on the Determination of Carbonyl Compounds by using High-Performance Liquid Chromatography (HPLC). Such application of HPLC techniques as standard protocols for sample analysis is adding to the growth of the market in the North American region.

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The launch of innovative High-Performance Liquid Chromatography (HPLC) systems by the key market players is also adding to the growth of the market. For instance, in July 2020, Waters Corporation introduced the Waters Arc HPLC System, a high-performance liquid chromatograph (HPLC) for routine testing in the pharmaceutical, food, academic, and materials sectors. The HPLC system was majorly focused on quality control laboratories that perform batch release tests on small molecule pharmaceuticals. Such activities are expected to propel market growth over the forecast period. Thus, the increasing necessity for High-Performance Liquid Chromatography (HPLC) coupled with increasing investment in the health care department is known to propel the growth of the market in this region.

High-Performance Liquid Chromatography Market Competitor Analysis

Global High-Performance Liquid Chromatography (HPLC) market is moderately fragmented and competitive. Market players are focusing on product innovations, new product launches and regional expansions to increase their market share. The key market players operating in HPLC market include Merck KGaA, Bio-Rad Laboratories, Inc., Mitsubishi Chemical Corporation, Tosoh Corporation and General Electric (Cytiva Life Sciences) among others.

Additional Benefits:

The market estimate (ME) sheet in Excel format
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