

High-Performance Liquid Chromatography (HPLC) - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The High-Performance Liquid Chromatography Market size is estimated at USD 5.22 billion in 2025, and is expected to reach USD 6.49 billion by 2030, at a CAGR of 4.45% during the forecast period (2025-2030).

Factors such as advancements in HPLC technologies and the surge in usage of HPLC in pharmaceutical and bio-pharmaceutical companies are expected to drive the market's growth during the forecast period. For instance, according to the study published in the Global Journal of Medical Pharmaceutical and Biomedical Update in September 2023, high-performance liquid chromatography (HPLC) analyzes unknown compounds, providing faster resolution times, superior peak shapes, consistent responses, and enhanced precision. The benefits associated with HPLC in identifying new compounds are anticipated to increase its adoption for research applications, bolstering the market growth.

Also, according to the study published in Pharmacological Reports in March 2023, the high-performance liquid chromatography with fluorescence detection (HPLC-FLD) method presents benefits such as reduced analysis costs and increased equipment availability compared to liquid chromatography-mass spectrometry (LC-MS). Therefore, the advantages of HPLC over other analytical techniques, such as low cost and increased availability of equipment, are anticipated to increase its adoption, thereby propelling the market growth.

Moreover, several key market players have also been interested in developing and manufacturing innovative HPLC-based systems for various laboratory functions, including diagnostics. For instance, in February 2022, Shimadzu Corporation launched the Nexera XS inert high-performance liquid chromatograph globally. The Nexera XS inert incorporates rust-resistant materials and nonmetallic materials that limit the adsorption of molecules to provide stable measurements of biopharmaceuticals and medium molecule pharmaceuticals. Such launches are expected to propel market growth during the forecast period.

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Therefore, advancements in HPLC technologies, the benefits of HPLC over other analytical techniques in identifying new compounds, and the surge in HPLC usage in pharmaceutical and biopharmaceutical companies are expected to drive the market's growth. However, the lack of skilled personnel and the high cost of HPLC systems will likely hinder the market's growth during the forecast period.

High-Performance Liquid Chromatography (HPLC) Market Trends

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

HPLC consumables are the columns, reagents, tubes, and other products 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 pharmaceutical and biopharmaceutical companies manufacturing HPLC systems are expected to grow significantly due to the increasing need to develop new therapeutics to address the growing prevalence of chronic diseases worldwide and increase government expenditure in the research and development of biotechnology.

For instance, according to a study published by Analytical Liquid Chromatography in May 2022, the chromatographic column is essential to HPLC separation. Significant progress has been made in developing columns with better performance to provide better separation, a shorter separation time, resilience to a broader pH range of the mobile phase, longer lifetime, use of lower volumes of the mobile phase, etc. Such advancements in these columns are expected to drive segmental growth.

Recent advances by the market players in researching and developing novel HPLC techniques also add to the market's growth. 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. This portfolio is compatible with all add-ons and chromatography autosamplers, allowing analysts to use the new portfolio in all systems. Such research and developments in HPLC techniques are expected to propel the market growth during the forecast period.

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

The rise in the adoption of highly advanced techniques and systems in manufacturing high-performance liquid chromatography (HPLC) and the technological advancements made in chromatographic studies is expected to boost the market's growth in North America.

The benefits offered by HPLC, such as accuracy in results during the identification of samples, are anticipated to boost the market growth in the United States. For instance, according to the study published in Molecules Journal in January 2024, researchers are exploring various chromatographic methods, particularly reverse phase (RP), to separate neurotransmitters (NTs) and metabolites, and HPLC facilitates the direct analysis of intracerebral microdialysis samples bypassing the need for complex derivatization. Therefore, the benefits offered by this technique are anticipated to surge the market demand due to the precise detection of intracerebral microdialysis samples.

The launch of innovative HPLC systems by the key market players also adds to the market's growth. For instance, in March 2023, Waters Corporation launched the Alliance iS, an intelligent HPLC System. It is crafted to tackle compliance risks head-on, boasting advanced error detection, troubleshooting capabilities, and a user-friendly interface. When combined with Waters' Empower Chromatography Software and eConnect HPLC Columns, the Alliance iS boosts precision and slashes common errors by a significant 40%. Therefore, such HPLC devices ensure accuracy and help quality control laboratories consistently achieve quality, safety, compliance, and timely delivery goals.

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Thus, the increasing necessity for high-performance liquid chromatography (HPLC) and critical initiatives adopted by the market players are anticipated to foster the market during the forecast period.

High-Performance Liquid Chromatography Industry Overview

The high-performance liquid chromatography (HPLC) market is fragmented due to the presence of several companies operating globally and regionally. Factors contributing to the competition include the launch of innovative HPLC devices and the rising adoption of HPLC in research and development. Some of the key players operating in the market include Merck KGaA, Bio-Rad Laboratories Inc., Mitsubishi Chemical Corporation, Tosoh Corporation, and Danaher Corporation (Cytiva).

Additional Benefits:

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

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