

High-Performance Liquid Chromatography (HPLC) Market Report by Product (Instruments, Consumables, Accessories), Application (Clinical Research, Diagnostics, Forensic, and Others), and Region 2024-2032

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Abstracts

The global high-performance liquid chromatography (HPLC) market size reached US\$ 5.6 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 8.2 Billion by 2032, exhibiting a growth rate (CAGR) of 4.1% during 2024-2032.

High-performance liquid chromatography (HPLC) refers to the chromatographic technique of separating different compounds from a mixture. The technique uses a glass reservoir to hold the solution, numerous pumps to pass the pressurized liquid solvent containing the sample mixture, a column filled with a solid adsorbent material, fluorescence, mass-spectrometric, ultraviolet (UV)-spectroscopic and electrochemical detectors and data collection systems. It is commonly used for analytical chemistry and biochemistry to identify, quantify and purify individual components. As a result, the technique finds extensive applications for trace analysis, clinical diagnosis of diseases, quality control in food products and pharmaceutical drug development.

Significant growth in the pharmaceutical industry across the globe represents one of the key factors creating a positive outlook for the market. HPLC is widely used to analyze drug samples, quality control, manufacturing complex pharmaceutical drugs and obtaining faster and accurate compound separation results. Furthermore, the increasing demand for reliable HPLC systems for the purification of monoclonal antibodies is also driving the market growth. Various advancements in the column and pump technologies and the development of miniaturized, automated and computerized HPLC devices are acting as other growth-inducing factors. These advancements have assisted in

conducting high-quality analysis that provides more accurate results in lesser time and enhances the overall convenience for the user. HPLC instrument manufacturers are also developing innovative column designs that can withstand high pressure from smaller, superficially porous particles, which is acting as another major growth-inducing factor. The emerging trend of biobanking and extensive research and development (R&D) activities in the field of life sciences are some of the other factors that are anticipated to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global high-performance liquid chromatography (HPLC) market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on product and application.

Breakup by Product:

Instruments

HPLC System

Automated

Manual

Detectors

Pumps

Others

Consumables

Columns

Tubes

Vials

Filters

Others

Accessories

Breakup by Application:

Clinical Research

Diagnostics

Forensic

Others

Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Agilent Technologies Inc., Bio-RAD Laboratories Inc., Gilson Inc., Hitachi Ltd., Perkinelmer Inc., Phenomenex Inc. (Danaher Corporation), Shimadzu Corporation, Thermo Fisher Scientific Inc., Tosoh Corporation and Waters Corporation.

Key Questions Answered in This Report:

How has the global high-performance liquid chromatography (HPLC) market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global high-performance liquid chromatography (HPLC) market?

What are the key regional markets?

What is the breakup of the market based on the product?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global high-performance liquid chromatography (HPLC) market and who are the key players?

What is the degree of competition in the industry?

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