

# Global Fast Protein Liquid Chromatography System Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Fast Protein Liquid Chromatography System market size is expected to reach \$ 1419 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

In 2025, the global annual production capacity of FPLC systems was approximately 12,000 units, with actual output reaching about 10,300 units. The global average market price was around USD 95,000 per unit. Major suppliers achieved gross profit margins between 45% and 65%, supported by strong demand from biopharmaceutical R&D and biologics manufacturing. FPLC systems are liquid chromatography platforms specifically optimized for the purification and separation of proteins, antibodies, enzymes, and other biomolecules under low-pressure conditions. They use aqueous buffers and bio-compatible flow paths, making them essential tools in biopharmaceutical research, process development, and small- to mid-scale biologics production.

Upstream includes chromatography resins, prepacked columns, low-pressure pumps, UV and conductivity detectors, valves, sensors, and bio-compatible tubing materials. Midstream consists of system manufacturers responsible for instrument integration, software control, automation, and compliance with bioprocess standards, with leading players concentrated in Europe, the United States, and China. Downstream applications cover biopharmaceutical companies, CDMOs, vaccine manufacturers, academic laboratories, and biotechnology startups. End users focus on protein recovery rate, resolution, system reproducibility, ease of cleaning (CIP), and scalability from lab to pilot production.

The FPLC system market continues to expand alongside the rapid growth of biologics, monoclonal antibodies, and recombinant protein therapeutics. Increasing investment in

biopharmaceutical R&D and process optimization is driving steady demand for flexible and reliable protein purification platforms. Advances in chromatography media, digital control, and modular system design are improving throughput and ease of scale-up. Compared with preparative HPLC, FPLC systems offer lower operating pressure and higher biocompatibility, making them indispensable in early-stage development and pilot manufacturing. Vendors are increasingly focusing on automation, data integrity, and GMP-readiness to support clinical and commercial biologics production.

This report studies the global Fast Protein Liquid Chromatography System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fast Protein Liquid Chromatography System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Fast Protein Liquid Chromatography System that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Fast Protein Liquid Chromatography System total production and demand, 2021-2032, (Units)

Global Fast Protein Liquid Chromatography System total production value, 2021-2032, (USD Million)

Global Fast Protein Liquid Chromatography System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Fast Protein Liquid Chromatography System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Fast Protein Liquid Chromatography System domestic production, consumption, key domestic manufacturers and share

Global Fast Protein Liquid Chromatography System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Fast Protein Liquid Chromatography System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Fast Protein Liquid Chromatography System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Fast Protein Liquid Chromatography System market based on the following parameters - company overview, production,

value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include KNAUER, Cytiva, Bio-Rad Laboratories, Thermo Fisher Scientific, Shimadzu, Sepure, Icon Scientific, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Fast Protein Liquid Chromatography System market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Fast Protein Liquid Chromatography System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Fast Protein Liquid Chromatography System Market, Segmentation by Type:

Affinity Chromatography

Ion Exchange Chromatography

Hydrophobic Interaction Chromatography

Size Exclusion Chromatography

Others

Global Fast Protein Liquid Chromatography System Market, Segmentation by Automation Level:

Manual

Semi-Automated

Fully Automated

Global Fast Protein Liquid Chromatography System Market, Segmentation by Application:

Biopharmaceuticals

Vaccine Manufacturing

Biolaboratory

Other

Companies Profiled:

KNAUER

Cytiva

Bio-Rad Laboratories

Thermo Fisher Scientific

Shimadzu

Sepure

Icon Scientific

**Key Questions Answered:**

1. How big is the global Fast Protein Liquid Chromatography System market?
2. What is the demand of the global Fast Protein Liquid Chromatography System market?
3. What is the year over year growth of the global Fast Protein Liquid Chromatography System market?
4. What is the production and production value of the global Fast Protein Liquid Chromatography System market?
5. Who are the key producers in the global Fast Protein Liquid Chromatography System market?
6. What are the growth factors driving the market demand?

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