

Global HPLC Buffer for Amino Acid Analysis Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global HPLC Buffer for Amino Acid Analysis market size is expected to reach \$ 333 million by 2032, rising at a market growth of 3.5% CAGR during the forecast period (2026-2032).

HPLC buffer for amino acid analysis refers to specifically formulated aqueous buffer systems, typically based on citrate (sodium or lithium citrate) or phosphate salts, used as the mobile phase in ion-exchange or reversed-phase HPLC to control pH and ionic strength, enabling the sequential separation and accurate quantification of amino acids in protein hydrolysates, biological fluids, food samples, and pharmaceutical preparations.

The industry chain begins upstream with suppliers of high purity chemicals such as citric acid, lithium salts, sodium salts, phosphates, and specialty additives along with ultrapure water systems and packaging materials, continues midstream with reagent manufacturers and analytical solution providers that formulate, mix, filter, and quality control standardized HPLC buffer systems and kits tailored for amino acid analysis instruments, and extends downstream to chromatography system providers, laboratories, and industrial users in pharmaceuticals, biotechnology, food safety, and clinical diagnostics where these buffers are consumed in routine analysis, quality control, and research applications requiring high reproducibility and regulatory compliance.

Current and planned projects in the HPLC buffer for amino acid analysis sector include expansion of high purity reagent manufacturing facilities in Asia and North America, establishment of GMP-compliant production lines for ready-to-use analytical buffer kits, investments by chromatography solution providers in integrated reagent and

consumable production to support growing biopharmaceutical demand, development of environmentally friendly and low-salt buffer systems to reduce instrument maintenance and waste disposal costs, collaborations between analytical instrument companies and chemical suppliers to standardize amino acid analysis workflows, and capacity additions targeting increasing applications in biologics, cell therapy, food safety testing, and clinical metabolomics.

2025 Global Market Average Gross Profit Margin: 40%.

This report studies the global HPLC Buffer for Amino Acid Analysis demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for HPLC Buffer for Amino Acid Analysis, 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 HPLC Buffer for Amino Acid Analysis that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global HPLC Buffer for Amino Acid Analysis total market, 2021-2032, (USD Million)

Global HPLC Buffer for Amino Acid Analysis total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: HPLC Buffer for Amino Acid Analysis total market, key domestic companies, and share, (USD Million)

Global HPLC Buffer for Amino Acid Analysis revenue by player, revenue and market share 2021-2026, (USD Million)

Global HPLC Buffer for Amino Acid Analysis total market by Type, CAGR, 2021-2032, (USD Million)

Global HPLC Buffer for Amino Acid Analysis total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global HPLC Buffer for Amino Acid Analysis market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mitsubishi Chemical Corporation, Waters, FUJIFILM Wako Pure Chemical Corporation, Shimadzu, Hitachi High-Tech, Sykam GmbH, Biochrom Ltd, Jasco Inc., GL Sciences, Restek Corporation, 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 HPLC Buffer for Amino Acid Analysis market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 HPLC Buffer for Amino Acid Analysis Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global HPLC Buffer for Amino Acid Analysis Market, Segmentation by Type:

Sodium Citrate Buffer

Lithium Citrate Buffer

Phosphate Buffer

Others

Global HPLC Buffer for Amino Acid Analysis Market, Segmentation by Chromatographic Mode:

Ion Exchange Buffer Systems

Reversed Phase Buffer Systems

Ion Pair Buffer Systems

Others

Global HPLC Buffer for Amino Acid Analysis Market, Segmentation by pH Range:

Acidic Buffer Systems

Neutral Buffer Systems

Alkaline Buffer Systems

Global HPLC Buffer for Amino Acid Analysis Market, Segmentation by Application:

Pharmaceutical

Food and Beverage

Environmental Analysis

Chemical Processing

Others

Companies Profiled:

Mitsubishi Chemical Corporation

Waters

FUJIFILM Wako Pure Chemical Corporation

Shimadzu

Hitachi High-Tech

Sykam GmbH

Biochrom Ltd

Jasco Inc.

GL Sciences

Restek Corporation

Tosoh Corporation

Key Questions Answered

1. How big is the global HPLC Buffer for Amino Acid Analysis market?
2. What is the demand of the global HPLC Buffer for Amino Acid Analysis market?
3. What is the year over year growth of the global HPLC Buffer for Amino Acid Analysis market?
4. What is the total value of the global HPLC Buffer for Amino Acid Analysis market?
5. Who are the Major Players in the global HPLC Buffer for Amino Acid Analysis market?
6. What are the growth factors driving the market demand?

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