

Global Sample Preparation in Genomics, Proteomics, and Epigenomics Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Sample Preparation in Genomics, Proteomics, and Epigenomics market size is predicted to grow from US\$ 180 million in 2025 to US\$ 267 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 2032.

Sample preparation in Genomics, Proteomics, and Epigenomics refers to a series of operations that isolate and transform target molecules from raw samples such as tissues or cells to adapt them for downstream high-throughput detection. In genomics, the core of preparation lies in obtaining high-purity, intact DNA through lysis and purification, and then fragmenting it to construct sequencing libraries. Preparation in proteomics is more complex, requiring quantification and enzymatic digestion of proteins after extraction to break them down into peptides, and often necessitating the removal of high-abundance interfering proteins to ensure the sensitivity of mass spectrometry detection. Epigenomics preparation, in addition to these steps, requires the preservation of epigenetic modification information, such as cross-linking chromatin to study protein-DNA interactions, or using bisulfite treatment to convert unmethylated cytosine, thereby locating methylation sites during sequencing. Furthermore, in epigenetic studies involving RNA, degradation must be strictly prevented. The preparation processes for all three require precise optimization based on the specific molecular targets and analytical platforms.

The global market for Sample Preparation in Genomics, Proteomics, and Epigenomics exhibits a pattern of both technological leadership and regional specialization. North America, leveraging its leading instrument companies and large-scale automated platforms, dominates the development of standardized preparation technologies for high-throughput, low-loss samples, maintaining a leading position, particularly in single-cell

and micro-sample preparation. Europe, drawing on its deep foundation in structural biology and proteomics, focuses on handling challenging samples, such as membrane protein extraction and post-translational modification enrichment, emphasizing precision and reproducibility. The Asia-Pacific region, with China at its core, is driven by substantial research demand, rapidly emerging in the manufacturing of magnetic bead purification reagents and automated liquid handling workstations, providing cost-effective solutions and gradually moving from import substitution to technology export.

LPI (LP Information)' newest research report, the “Sample Preparation in Genomics, Proteomics, and Epigenomics Industry Forecast” looks at past sales and reviews total world Sample Preparation in Genomics, Proteomics, and Epigenomics sales in 2025, providing a comprehensive analysis by region and market sector of projected Sample Preparation in Genomics, Proteomics, and Epigenomics sales for 2026 through 2032. With Sample Preparation in Genomics, Proteomics, and Epigenomics sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Sample Preparation in Genomics, Proteomics, and Epigenomics industry.

This Insight Report provides a comprehensive analysis of the global Sample Preparation in Genomics, Proteomics, and Epigenomics landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Sample Preparation in Genomics, Proteomics, and Epigenomics portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Sample Preparation in Genomics, Proteomics, and Epigenomics market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Sample Preparation in Genomics, Proteomics, and Epigenomics and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Sample Preparation in Genomics, Proteomics, and Epigenomics.

This report presents a comprehensive overview, market shares, and growth opportunities of Sample Preparation in Genomics, Proteomics, and Epigenomics market

by product type, application, key players and key regions and countries.

Segmentation by Type:

DNA Sample Preparation

RNA Sample Preparation

Protein Sample Preparation

Epigenetic Modification Targeted Preparation

Others

Segmentation by Technology Platform:

Sequencing Platform Pretreatment

Mass Spectrometry Platform Pretreatment

Microarray Hybridization Pretreatment

PCR Platform Pretreatment

Others

Segmentation by Complexity:

All Components Preparation

Subcellular Components Preparation

Modified and Enriched Components Preparation

Others

Segmentation by Application:

Academic Institutes, and Government Institutes

Hospitals and Clinics

Pharmaceutical and Biotechnology Companies

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

QIAGEN GmbH

Bio-Rad Laboratories, Inc.

Danaher Corporation

Merck KGaA

PerkinElmer, Inc.

BGI

Cytiva

Illumina

Roche Sequencing Solutions

New England Biolabs

Thermo Fisher Scientific

Miltenyi Biotec

Twist Bioscience

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