

Global Sample Preparation in Genomics, Proteomics, and Epigenomics Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Sample Preparation in Genomics, Proteomics, and Epigenomics market size is expected to reach \$ 276 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

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.

This report studies the global Sample Preparation in Genomics, Proteomics, and Epigenomics demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Sample Preparation in Genomics, Proteomics, and Epigenomics, 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 Sample Preparation in Genomics, Proteomics, and Epigenomics that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Sample Preparation in Genomics, Proteomics, and Epigenomics total market, 2021-2032, (USD Million)

Global Sample Preparation in Genomics, Proteomics, and Epigenomics total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Sample Preparation in Genomics, Proteomics, and Epigenomics total market, key domestic companies, and share, (USD Million)

Global Sample Preparation in Genomics, Proteomics, and Epigenomics revenue by player, revenue and market share 2021-2026, (USD Million)

Global Sample Preparation in Genomics, Proteomics, and Epigenomics total market by Type, CAGR, 2021-2032, (USD Million)

Global Sample Preparation in Genomics, Proteomics, and Epigenomics total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Sample Preparation in Genomics, Proteomics, and Epigenomics 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 QIAGEN GmbH, Bio-Rad Laboratories, Inc., Danaher Corporation, Merck KGaA, PerkinElmer, Inc., BGI, Cytiva, Illumina, Roche Sequencing Solutions, New England Biolabs, 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 Sample Preparation in Genomics, Proteomics, and Epigenomics 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 Sample Preparation in Genomics, Proteomics, and Epigenomics Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Sample Preparation in Genomics, Proteomics, and Epigenomics Market,
Segmentation by Type:

DNA Sample Preparation

RNA Sample Preparation

Protein Sample Preparation

Epigenetic Modification Targeted Preparation

Others

Global Sample Preparation in Genomics, Proteomics, and Epigenomics Market,
Segmentation by Technology Platform:

Sequencing Platform Pretreatment

Mass Spectrometry Platform Pretreatment

Microarray Hybridization Pretreatment

PCR Platform Pretreatment

Others

Global Sample Preparation in Genomics, Proteomics, and Epigenomics Market,
Segmentation by Complexity:

All Components Preparation

Subcellular Components Preparation

Modified and Enriched Components Preparation

Others

Global Sample Preparation in Genomics, Proteomics, and Epigenomics Market,
Segmentation by Application:

Academic Institutes, and Government Institutes

Hospitals and Clinics

Pharmaceutical and Biotechnology Companies

Others

Companies Profiled:

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

Key Questions Answered

1. How big is the global Sample Preparation in Genomics, Proteomics, and Epigenomics market?
2. What is the demand of the global Sample Preparation in Genomics, Proteomics, and Epigenomics market?
3. What is the year over year growth of the global Sample Preparation in Genomics, Proteomics, and Epigenomics market?
4. What is the total value of the global Sample Preparation in Genomics, Proteomics, and Epigenomics market?
5. Who are the Major Players in the global Sample Preparation in Genomics, Proteomics, and Epigenomics market?
6. What are the growth factors driving the market demand?

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