

Next-generation Sequencing Library Preparation Market Expected to Grow to US\$ 4,787.38 Million by 2032 | CAGR 12.8%

Progressions in genomic research are driving the market demand.

NEW YORK CITY, NY, UNITED STATES, October 16, 2024 /EINPresswire.com/ -- Our [next-generation sequencing library preparation market](#) report has been prepared using advanced

methodologies and research techniques to help businesses make strategic business decisions.



The next-generation sequencing library concocting market concentrates on technologies for making biological specimens such as DNA or RNA."

Polaris Market Research

Polaris Market Research, a leading market research organization, has released a report titled " Next-Generation Sequencing Library Preparation Market: Global Market Share, Trends, Size, Growth, Opportunity and Forecast 2024-2032." The market was valued at USD 1,619.26 million in 2023 and is expected to grow to USD 4,787.38 million by 2032. The market is anticipated to expand at a CAGR of 12.8% during the forecast period.

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Growingly, NGS is being requested to manage more provocation specimens from manifold genesis, of lesser standard or of compact size. Prior to these specimens being analysed, they must be served with and prepared. This assists in prohibiting pollution, enhancing preciseness, and lessening the probability of partiality. Specimen preparation is not just the exercised option for NGS. If any of the procedures are executed poorly, sequencing will not acquire triumphant outcomes.

Specimen preparation differs depending on the kind of substance being sampled and the motive of the experiment. Varied kinds of genetic substances have moderately different specimen preparation procedures. No preparation convention is always maximum, and there is an

aggregate of questions that are required to be questioned prior to the demonstration to regulate the best methods. The growing acquisition of NGS technologies covering several applications involving customized medicine, cancer research and drug detection is pushing the next-generation sequencing library preparation market demand.

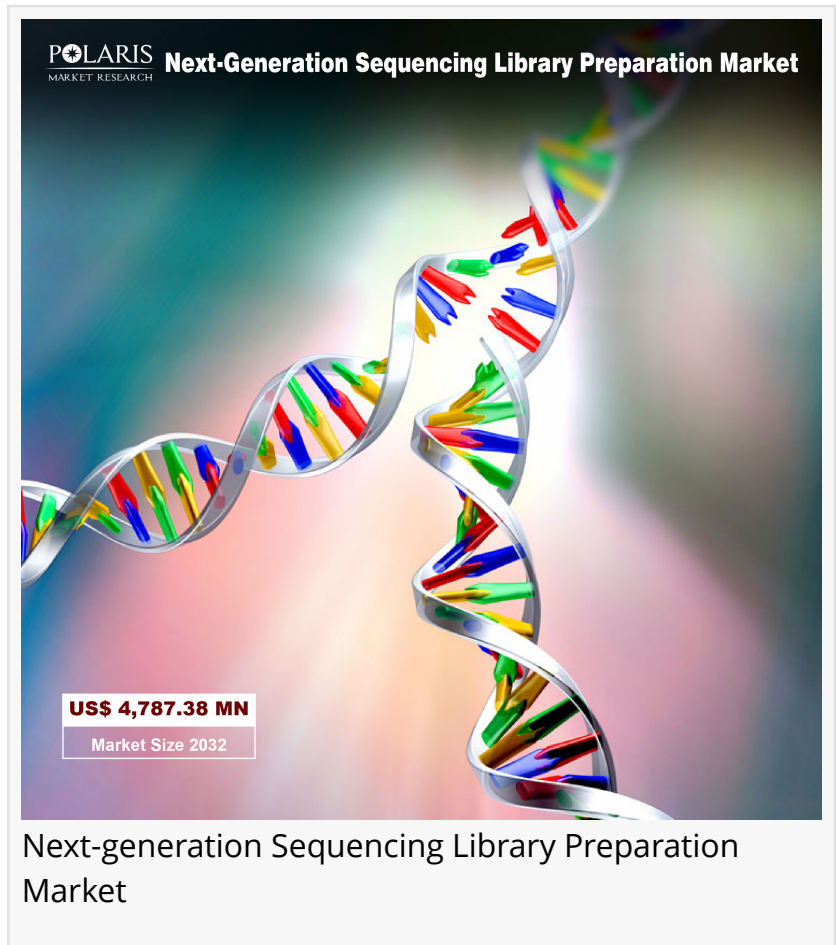
Key market players include:

- Illumina
- Thermo Fisher Scientific
- Agilent Technologies
- Roche
- QIAGEN
- Bio-Rad Laboratories
- Beckman Coulter
- Pacific Biosciences
- Oxford Nanopore Technologies
- Hamilton Company
- Fluidigm Corporation
- 10x Genomics
- Genomatix Software
- Dovetail Genomics
- Array Technologies

Key market trends include:

Surge in Automation: Automation smoothens the library preparation procedure, decreasing manual labour and lessening mistakes, which is important for high-magnitude sequencing projects. Elevated output solutions such as progressive robotic systems and automated liquid management sanction labs process many specimens at the same time, notably escalating productivity and output and boosting the next-generation sequencing library preparation market growth.

Surge of Applications in Personalized Medicine: The solicitation of NGS library preparation in customized medicine and drug detection is augmenting, propelled by growing insistence on tailoring cures to discrete genetic portrayals and the requirement for contemporary drug targets.



Technological Progressions: Technological inventions are rendering NGS library preparation procedures more productive and economical. Progression in sequencing chemistries, library preparation kits, and reagents is sanctioning more precise and speedier causation of sequencing libraries.

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Market Segmentation:

- The next-generation sequencing library preparation market segmentation is based on sequencing type, product, application, end user, and region.
- By sequencing type analysis, the whole genome sequencing segment held the largest market share. This is due to its panoramic perspective offering a holistic view of the complete genome and providing a treasured perception of genetic disparity and structural anomalies.
- By product analysis, the reagents & consumables segment is poised to register a significant CAGR. This is due to their important part in sequencing workflow. This segment involves a broad gamut of necessary constituents, such as buffers, enzymes, and adapters, which are essential for preparing sequencing libraries.

Regional Insights:

The research report covers all the major regions and sub-regions of the next-generation sequencing library preparation market. The study provides market insights into North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa.

North America: North America accounted for the largest market share. This is primarily because of the progressive healthcare framework, elevated research funding, and the robust existence of biotechnology and pharmaceutical firms.

Europe: Europe is anticipated to witness the fastest CAGR from 2024 to 2032. The region's robust funding from public and private sectors and European nations, especially Germany, the UK, and France, are eminent players with notable funding in genomic research and healthcare invention, fuels the regional market expansion.

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FAQ:

How much is the next-generation sequencing library preparation market?

The market size was valued at USD 1,619.26 million in 2023 and is projected to grow to USD

4,787.38 million by 2032.

What is the growth rate of the next-generation sequencing library preparation market?
The global market is projected to register a CAGR of 12.8% during 2023–2032.

Which region held the largest market share?
North America held the largest market share.

Based on sequencing type, which segment led the market in 2023?
The whole genome sequencing segment dominated the market in 2023.

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