

Nucleic Acid Labeling Market By Product (Kits and Reagents, Services) , By Labeling Techniques (PCR, Nick Translation, Random Primer, In Vitro Transcription, Reverse Transcription, End Labelling) By Application (DNA Sequencing, PCR, FISH, Microarray, In Situ Hybridization, Blotting, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Nucleic Acid Labeling Market

The nucleic acid labeling market was valued at \$2.5 billion in 2023 and is projected to reach \$5.1 billion by 2033, growing at a CAGR of 7.6% from 2024 to 2033.

Nucleic acid labeling is a biomolecular technique that involves the attachment of a detectable marker to nucleic acids, both DNA and RNA. This technique enables the tracking, analysis, or study of the presence, distribution, quantity, or sequence of nucleic acid. It finds applications in gene expression analysis, in-situ hybridization, PCR assays, and single-molecule analysis.

Rise in focus on genomic research and surge in the popularity of precision medicine are the key drivers of the nucleic acid labeling market. In addition, the technique plays a crucial role in facilitating early disease detection and proactive treatments, which augments the market growth significantly. Furthermore, expansion of the point-of-care testing approach is fueling the requirement for nucleic acid labeling infrastructure and propelling the development of the market. To enhance the precision and effectiveness

of labeling, the development of next-generation fluorescent probes and nanoparticle-based labels is becoming a prominent trend in the market. These labels exhibit high sensitivity, which is essential to improve the signal-to-noise ratio of the process.

However, the high cost of reagents & equipment required to accomplish nucleic acid labeling deters several small-scale laboratories and institutions from their procurement, which hampers the growth of the market. Moreover, increase in the shortage of skilled workforce to conduct the labeling technique limits its adoption and restrains the nucleic acid labeling market. Contrarily, rise in expenditure and investments in the biopharmaceutical industry is poised to present lucrative opportunities for the nucleic acid labeling market. The technique is essential for the industry to discover, validate, and monitor the drugs, biomarkers, and therapeutic responses. According to IQVIA—an American professional consulting and biopharmaceutical development provider—the global funding for biopharmaceutical R&D upsurged from \$61 billion in 2022 to \$72 billion in 2023. Therefore, the nucleic acid labeling market is poised to witness several new avenues with increasing investments.

Segment Review

The nucleic acid labeling market is segmented into product, labeling techniques, application, and region. On the basis of product, the market is bifurcated into kits & reagents and services. Depending on labeling techniques, it is divided into PCR, nick translation, random primer, in-vitro transcription, reverse transcription, and end labelling. As per application, it is classified into DNA sequencing, PCR, FISH, microarray, in-situ hybridization, blotting, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of product, the kits & reagents & reagents segment held a high share of the market in 2023.

Depending on labeling techniques, the PCR segment dominated the market in 2023.

As per application, the FISH segment was the highest shareholder in 2023.

Region wise, North America was the highest revenue generator in 2023.

Competition Analysis

The major players in the global nucleic acid labeling market include Merck & Co., Inc., PerkinElmer, Inc., New England Biolabs, Inc., F. Hoffmann La-Roche AG, Enzo Biochem Inc., GE Healthcare, Vector Laboratories, Inc., Promega Corporation, Agilent Technologies, and Thermo Fisher Scientific. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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New Product Development/ Product Matrix of Key Players

Regulatory Guidelines

Additional company profiles with specific to client's interest

Expanded list for Company Profiles

Historic market data

Key Market Segments

By Product

Kits and Reagents

Services

By Labeling Techniques

PCR

Nick Translation

Random Primer

In Vitro Transcription

Reverse Transcription

End Labelling

By Application

DNA Sequencing

PCR

FISH

Microarray

In Situ Hybridization

Blotting

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

Australia

India

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

Merck & Co., Inc.

PerkinElmer, Inc

New England Biolabs, Inc.

F. Hoffmann La-Roche AG

Enzo Biochem Inc.

GE Healthcare

vector laboratories, inc.

Promega Corporation

Agilent Technologies

Thermo Fisher Scientific

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