

# **Nucleic Acid Labeling Market Size, Share & Trends Analysis Report By Product (Reagents, Kits), By Labeling Type, By Method, By Application, By Sector, By Region, And Segment Forecasts, 2020 - 2027**

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## **Abstracts**

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### **Nucleic Acid Labeling Market Growth & Trends**

The global nucleic acid labeling market size is expected to reach USD 3.22 billion by 2027, according to a new report by Grand View Research, Inc. It is expected to expand at a CAGR of 8.81% from 2020 to 2027. Technological advancements with respect to PCR, DNA sequencing, nanotechnology, and microfluidics are expected to help enhance the market potential in the near future. Additionally, nucleic acid labeling products are gaining significant momentum across diagnostic as well as therapeutic interventions associated with cancer disorders and genetic deformities, thereby elevating the market growth.

Technologies that enable direct detection of specific sequences of RNA or DNA serve as occasional potent alternatives to amplification protocols employed in gene expression studies. Research activities performed on these lines have also led to the development of novel label protocols such as that of incorporating probes that are specifically labeled with anti-label antibodies conjugated via alkaline phosphatase. This direct detection technique employing the use of specific labeled probes has emerged as a reliable and flexible approach for gene expression analysis, well-suited for high-throughput screening.

The continuing quest for designing labels with enhanced functional properties suitable

for hybridization assays has led to the introduction of an array of potential approaches to label nucleic acids that are inclusive of genes encoding enzymes, microparticles, and a novel class of fluorophores.

With the emergence of novel viral infections, such as the coronavirus (COVID 19), followed by the MERS outbreak in 2015 and the SARS outbreak in 2003, healthcare professionals are experiencing a significant urge for the development of rapid detection approaches that can assist in the identification of target viruses at scale. The COVID-19 pandemic has also led to an increase in demand for nucleic acid-based research efforts aimed at developing breakthrough treatment solutions, further expected to accelerate market expansion.

### Nucleic Acid Labeling Market Report Highlights

By product, the reagents segment dominated the market in 2019 and is set to maintain its lead throughout the forecast period. This is attributed to the fact that reagents are essential components across both enzymatic and chemical labeling, resulting in an expanding vendor base aimed at introducing novel and effective reagents to label DNA/RNA

By labeling type, the radioactive or radioisotope labels dominated the market in 2019 and are anticipated to maintain their lead throughout the forecast period. Radioactive labeling is gaining increased traction among the professionals, which is further supplemented by the ease of incorporation of radioactively labeled nucleic acid sequences

The oligonucleotide application segment is expected to grow at the fastest pace from 2020 to 2027. The end labeling of oligonucleotides with radioisotopes has gained immense traction over the years. This is attributed to the fact that such oligonucleotides are set to drive the nucleic acid probe technology, which can be custom made via the information on target RNA and DNA

North America captured the largest share of 39.47% in 2019, which is primarily attributed to the expanding portfolios of emerging manufacturers, along with robust support from research organizations, collectively contributing to the regional revenue

Companies are engaged in acquisitions and collaborations to maintain a competitive edge in the market



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