

Nucleic Acid Isolation and Purification Market Size is Predicted to Reach US\$ 8.1 Billion by 2028

The study provides a detailed analysis of the industry, including the global nucleic acid isolation and purification market size, trends, and growth forecasts.

BROOKLYN, NEW YORK, UNITED STATES, July 12, 2023 /EINPresswire.com/ -- Industry Overview of Nucleic Acid Isolation and Purification Market

Nucleic acid isolation and purification are vital procedures utilized in forensic analysis and molecular biology to extract DNA and RNA from membranes, proteins, and other cellular materials. These procedures

encompass various types, including total RNA isolation and purification, PCR cleanup, plasmid DNA isolation and purification, microRNA isolation and purification, and more. They serve a critical role in enabling clinicians to efficiently process samples, identify cancer risks, diagnose genetic mutations in patients, develop new therapeutics, and improve drug efficacy. Consequently, these methods find extensive applications in hospitals, diagnostic centers, academic research institutes, pharmaceutical and biotechnology companies, contract research organizations, and other relevant institutions.



Nucleic Acid Isolation and Purification Market

How Big Is The Nucleic Acid Isolation and Purification Market?

The global [nucleic acid isolation and purification market size](#) reached US\$ 4.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 8.1 Billion by 2028, exhibiting a growth rate (CAGR) of 8.5% during 2023-2028.

Global Industry Trends and Drivers:

The nucleic acid isolation and purification market is undergoing substantial growth, driven by several factors. One of the primary drivers is the rising prevalence of infectious diseases, chronic disorders, and genetic conditions, which necessitate accurate and efficient nucleic acid analysis. In the pharmaceutical sector, this procedure is extensively used to identify microorganisms, detect mutations, and understand their role in antibiotic resistance, thereby contributing to

market expansion. The introduction of magnetic bead-based extraction kits for liquid handling platforms has also had a positive impact on the market. These kits facilitate the extraction of highly pure nucleic acids from diverse sources like blood, tissue, and plant materials, enhancing the efficiency and reliability of the process. Furthermore, there is a growing awareness of genomic diagnostics among patients, resulting in an increased demand for nucleic acid isolation and purification services. Advances in genomic sequencing techniques have improved disease diagnosis, further bolstering market growth. Moreover, the routine screening and detection of pathogens and microorganisms using DNA and RNA isolation, as well as the widespread adoption of polymerase chain reaction (PCR) techniques for detecting genetic abnormalities, are expected to fuel the market's expansion in the coming years. These factors, coupled with continuous technological advancements and increased investments in research and development by key market players, are anticipated to drive the nucleic acid isolation and purification market forward.

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What Is Included In Market Segmentation?

The report has segmented the market into the following categories:

Breakup by Product:

- Kits and Reagents
- Instruments

Breakup by Type:

- Plasmid DNA Isolation and Purification
- Total RNA Isolation and Purification
- Circulating Nucleic Acid Isolation and Purification
- Genomic DNA Isolation and Purification
- Messenger RNA Isolation and Purification
- microRNA Isolation and Purification
- PCR Cleanup
- Others

Breakup by Method:

- Column-Based Isolation and Purification
- Magnetic Bead-Based Isolation and Purification
- Reagent-Based Isolation and Purification
- Others

Breakup by End User:

- Hospitals and Diagnostic Centers
- Academic and Government Research Institutes
- Pharmaceutical and Biotechnology Companies

- Contract Research Organizations
- Others

Breakup by Region:

- North America
 - o United States
 - o Canada
- Asia-Pacific
 - o China
 - o Japan
 - o India
 - o South Korea
 - o Australia
 - o Indonesia
 - o Others
- Europe
 - o Germany
 - o France
 - o United Kingdom
 - o Italy
 - o Spain
 - o Russia
 - o Others
- Latin America
 - o Brazil
 - o Mexico
 - o Others
- Middle East and Africa

Who Are The Key Players Operating In The Industry?

Abcam plc, Agilent Technologies Inc., Bio-Rad Laboratories Inc., Illumina Inc., Macherey-Nagel GmbH & Co. Kg, New England Biolabs, Norgen Biotek Corp., Omega Bio-Tek Inc., Promega Corporation, Qiagen, Roche Molecular Systems Inc. (F. Hoffmann-La Roche AG), Takara Bio Inc. (Takara Holdings Inc.) and Thermo Fisher Scientific Inc.

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