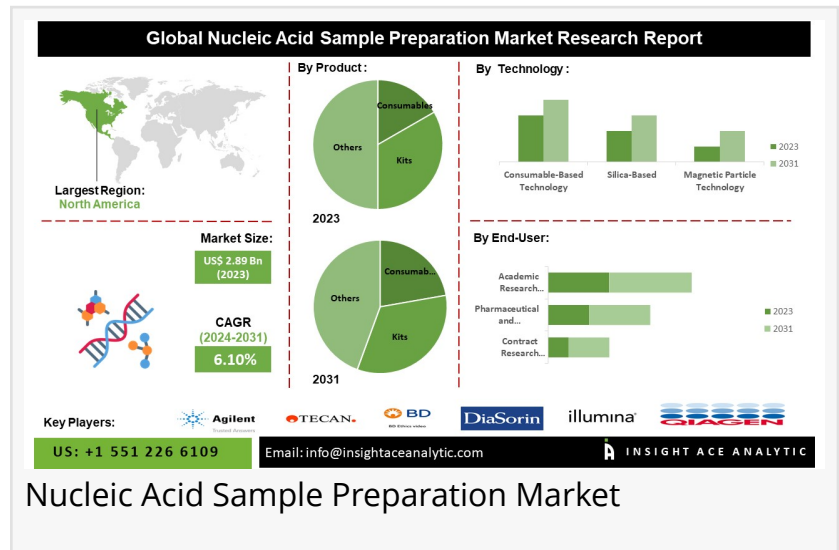


Nucleic Acid Sample Preparation Market New Report Unveils Key Trends Shaping the Industry

JERSEY, NJ, US, March 27, 2024 /EINPresswire.com/ -- InsightAce Analytic Pvt. Ltd. announces the release of a market assessment report on the "Global [Nucleic Acid Sample Preparation Market](#) – (By Product (Consumables (Kits (DNA/RNA Sample Isolation/Extraction/Purification, DNA/RNA Clean-Up and Concentration, DNA and RNA Quantification), Reagents), Instruments), By Technology (Silica-Based, Magnetic Particle Technology, Other Technologies), By Source Type (Cell-Free (By Sample (Blood, Serum/Plasma, Other Sources), By Application (Parental and Hereditary Testing, Tumor Testing, Transplantation), Genomic (Blood, Body Fluids, Buccal, Cell/Cultured Cell, FFPE, Forensic, Plant, Saliva/Swab, Serum/Plasma, Tissue, Stool, Urine, and Other Samples), Microbe (Bacterial, Fungus, Yeast, Other Sources), Plasmid (GigaPrep, MaxiPrep, MegaPrep, MidiPrep, MiniPrep), Viral), By Application (PCR, qPCR, NGS, Cloning, Microarray, Blotting Techniques, Other Applications), By End-user (Academic Research Institutes and Laboratories, Pharmaceutical and Biotechnology Companies, Contract Research Organizations (CROs), Clinical Diagnostic Centers, Applied Testing (Forensic, Biobanks))), Trends, Industry Competition Analysis, Revenue and Forecast To 2031."



According to the latest research by InsightAce Analytic, the Global Nucleic Acid Sample Preparation Market is valued at US\$ 2.89 Bn in 2023, and it is expected to reach US\$ 4.57 Bn by 2031, with a CAGR of 6.10% during the forecast period of 2024-2031.

The extraction, isolation, and purification of DNA or RNA from a variety of biological materials constitute the intricate process of nucleic acid sample preparation. This process is foundational for numerous downstream applications such as PCR, sequencing, cloning, and gene expression analysis. Effective sample preparation is essential for obtaining high-quality nucleic acids free from contaminants that could interfere with these applications. In many applications—such as drug development, genetic research, and clinical diagnostics, among others—this crucial phase is

crucial. Because of the region's strong healthcare industry and persistent emphasis on cutting-edge medical solutions, there has been a noticeable increase in demand for these operations.

The rising incidence of genetic disorders and infectious diseases is one of the main drivers propelling the nucleic acid sample preparation market's expansion. Moreover, the current COVID-19 epidemic has brought attention to the critical need for quick and precise testing, which is largely dependent on effective nucleic acid sample preparation.

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Recent Developments

- November 2023, The TissueLyser III and RNeasy PowerMax Soil Pro Kit, introduced by QIAGEN, were specifically engineered to optimize RNA isolation and sample processing. TissueLyser III improved the QIAGEN portfolio for the production of high-throughput samples. Compatibility with the TissueLyser III, the RNeasy PowerMax Soil Pro Kit employed sophisticated Inhibitor Removal Technology to process difficult soil samples as part of a streamlined workflow.
- In Dec 2023, Thermo Fisher Scientific unveiled novel sample preparation tools that streamline and automate respiratory diagnostic testing. The introduction of the new Thermo Scientific KingFisher Apex Dx system and Applied Biosystems MagMAX Dx Isolation Kit has enhanced the preanalytical procedures in clinical laboratories.

List of Prominent Players in the Nucleic Acid Sample Preparation Market:

- Merck KGaA
- BGI Group (MGI Tech Co., Ltd.)
- F. Hoffmann-La Roche Ltd
- Agilent Technologies, Inc.,
- Danaher (Beckman Coulter, Inc.)
- Eppendorf SE
- Bioneer Corporation
- Norgen Biotek Corp
- Aurora Biomed Inc.
- Becton, Dickinson and Company,
- Bio-Rad Laboratories Inc.,
- DiaSorin S.p.A,
- Miroculus, Inc.,
- Illumina, Inc.,
- PerkinElmer, Inc.,
- QIAGEN,
- Sigma Aldrich Corp.,

- Tecan Group AG,
- Thermo Fisher Scientific, Inc.
- Other Prominent Players

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Market Dynamics:

Drivers-

The rise in genetic tests performed worldwide and the growing need for dependable next-generation sequencing (NGS) platforms in clinical laboratories are the main drivers propelling the growth of the global nucleic acid sample preparation market. Additionally, a notable increase in the need for devices and consumables for nucleic acid sample preparation is being driven by the rising incidence of cancer cases and infectious disorders. The primary cause of this rising demand is the critical role that genetic analysis plays in infectious disease diagnosis, treatment, and surveillance.

Challenges:

The initial and crucial stage in every biological procedure is the production of a nucleic acid sample. On the other hand, the supplies and labour needed to prepare the sample are quite expensive. Thus, the process's overall cost rises as a consequence. Moreover, the throughput of the currently available kits is restricted; hence, automation is needed to scale to larger samples. Also very expensive are the reagents that are used. Aside from being difficult to process, some biological samples—like tissues with strong cell walls or specific body fluids—also call for specific methods in order to extract nucleic acid from them effectively. To keep samples clean and free from contamination, strict laboratory procedures and guidelines must be followed. Thus, the market share for nucleic acid sample preparation is expected to be hampered for various reasons.

Regional Trends:

The North American nucleic acid sample preparation market is expected to lead with a major market revenue share and projected to grow at a high CAGR in the near future. This is because several factors are driving the expansion of this market, including a high prevalence of genetic illnesses, huge expenditures in the life sciences, and a well-established research infrastructure. Key companies in biotechnology and pharmaceuticals are present, and supportive government policies contribute to the growth of the market. Besides, Asia Pacific had a considerable market share. Growing emphasis on genetics in countries like China and India, a rise in research activities, and evolving healthcare infrastructure are driving market expansion. The nucleic acid sample preparation market is expanding in this sector due to rising consumer interest in genetic research and molecular diagnostics.

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Segmentation of Nucleic Acid Sample Preparation Market-

By Product-

- Consumables
 - o Kits
 - DNA/RNA Sample Isolation/Extraction/Purification
 - DNA/RNA Clean-Up and Concentration
 - DNA and RNA Quantification
 - o Reagents
- Instruments

By Technology-

- Silica-Based
- Magnetic Particle Technology
- Other Technologies

By Source Type-

- Cell-Free
 - o By Sample
 - Blood
 - Serum/Plasma
 - Other Sources
 - o By Application
 - Parental and Hereditary Testing
 - Tumor Testing
 - Transplantation
- Genomic
 - o Blood
 - o Body Fluids
 - o Buccal
 - o Cell/Cultured Cell
 - o FFPE
 - o Forensic
 - o Plant
 - o Saliva/Swab
 - o Serum/Plasma
 - o Tissue
 - o Stool, Urine, and Other Samples
- Microbe
 - o Bacterial

- o Fungus
- o Yeast
- o Other Sources
 - Plasmid
- o GigaPrep
- o MaxiPrep
- o MegaPrep
- o MidiPrep
- o MiniPrep
 - Viral

By Application-

- PCR
- qPCR
- NGS
- Cloning
- Microarray
- Blotting Techniques
- Other Applications

By End-user-

- Academic Research Institutes and Laboratories
- Pharmaceutical and Biotechnology Companies
- Contract Research Organizations (CROs)
- Clinical Diagnostic Centers
- Applied Testing (Forensic, Biobanks)

By Region-

North America-

- The US
- Canada
- Mexico

Europe-

- Germany
- The UK
- France
- Italy
- Spain
- Rest of Europe

Asia-Pacific-

- China
- Japan
- India
- South Korea
- Southeast Asia
- Rest of Asia Pacific

Latin America-

- Brazil
- Argentina
- Rest of Latin America

Middle East & Africa-

- GCC Countries
- South Africa
- Rest of Middle East and Africa

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