

# **Nucleic Acid Isolation and Purification Market by Product (Kits, Reagents, Instruments), Method (Column, Magnetic Beads), Type (Genomic DNA, Plasmid DNA, mRNA), Application (Diagnostics, Personalized Medicine), End User (CROs) & Region - Global Forecast to 2028**

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## **Abstracts**

The global Nucleic acid isolation and purification market is projected to reach USD 9.4 billion by 2028 from USD 6.4 billion in 2023, at a CAGR of 8.1% during the forecast period. The factors responsible for the growth of this market include increasing automation, growing research and development activities and increasing technological advancements.

In 2022, the kits segment accounted for the largest share of the global nucleic acid isolation and purification market.

Based on products, the nucleic acid isolation and purification market has been segmented into kits, reagents, and instruments. The instruments segment is further segmented into automatic and manual instruments. In 2022, the kits segment accounted for the largest share of the global nucleic acid isolation and purification market. Factors responsible for the growth in this market include easy usage and cost of kits in applications including molecular diagnostics, gene sequencing, and gene cloning, and the continuous focus of key market players on developing and launching advanced kits.

In 2022, the plasmid DNA isolation segment accounted for the largest share of the market.

Based on type, the global nucleic acid isolation and purification market is segmented into plasmid DNA, total RNA, circulating nucleic acid, genomic DNA, messenger RNA, microRNA, and other nucleic acid isolation and purification types. In 2022, the plasmid DNA isolation and purification segment dominated the global nucleic acid isolation and purification market. The growth of this segment can be attributed to several factors. Firstly, the market benefits from the wide availability of diverse extraction and processing kits specifically designed for plasmid DNA. Additionally, the increasing utilization of plasmid DNA in gene expression profiling and its widespread application in various downstream processes contribute to the segment's expansion.

In 2022, the diagnostics segment accounted for the largest share of the global nucleic acid isolation and purification market.

Based on application, the global nucleic acid isolation and purification market is segmented into personalized medicine, diagnostics, agriculture & animal research, drug discovery & development, and other applications. The diagnostics segment dominated the global nucleic acid isolation and purification market in 2022. Several factors contributed to the segment's prominence including the growing utilization of DNA and RNA isolation in routine sample processing for pathogen identification, the increasing awareness of genomic diagnostics among patients and the improved efficiency of genomics sequencing in disease diagnosis.

In 2022, North America accounted for the largest share of the nucleic acid isolation and purification market.

Based on region, the market is segmented into North America, Europe, Asia Pacific, Latin America, and Middle East & Africa. In 2022, North America dominated the global nucleic acid isolation and purification market. The dominance of the region can be attributed to factors such as presence of key players in the region, increasing R&D spending in pharmaceutical and biotechnology companies, government support, and technological advancements, in the region.

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side- 80% and Demand Side 20%

By Designation: Managers- 45%, CXOs and Directors - 30%, and Executives - 25%

By Region: North America -37%, Europe -30%, Asia-Pacific -25%, Latin America -5%, Middle East & Africa- 3%

List of Companies Profiled in the Report:

Thermo Fisher Scientific Inc. (US)

Merck KGaA (Germany)

QIAGEN (Germany)

F. Hoffmann-La Roche Ltd. (Switzerland)

Promega Corporation (US)

Agilent Technologies, Inc. (US)

Danaher(US)

Bio-Rad Laboratories, Inc. (US)

Illumina, Inc. (US)

Takara Bio Inc. (Japan)

New England Biolabs (US)

Abcam Plc (UK)

KILPEST India Limited (India)

Apical Scientific Sdn. Bhd. (Malaysia)

Endress+Hauser Group Services AG (Switzerland)

GENAXXON bioscience GmbH (Germany)

LGC Biosearch Technologies (US)

Zymo Research Corporation (US)

Norgen Biotek Corp. (Canada)

Omega Bio-Tek, Inc. (US)

FAVORGEN Biotech Corp. (China)

TIANGEN Biotech (Beijing) Co., Ltd. (China)

AutoGen Inc. (US)

PCR Biosystems (UK)

Biogenuix (India)

**Research Coverage:** The report comprehensively encompasses in-depth information about the significant factors that impact the growth of the NAIP market, including drivers, restraints, challenges, and opportunities. A meticulous analysis of the leading industry players has been conducted to offer insights into their business overview, solutions, and products. Additionally, the report examines their key strategies, such as partnerships, agreements, new product launches, mergers and acquisitions, and recent developments associated with the NAIP market. Furthermore, the report covers a competitive analysis of emerging startups in the NAIP market ecosystem.

### Reasons to Buy the Report

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall NAIP market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

*Nucleic Acid Isolation and Purification Market by Product (Kits, Reagents, Instruments), Method (Column, Magne...*

Analysis of key drivers (Increasing R&D activities, Technological advancements and increasing automation, Growing demand for molecular diagnostics), restraints (High cost of automated instruments), opportunities (Growth opportunities in emerging economies, Improving regulatory and reimbursement scenario, Molecular diagnostics and personalized medicine), and challenges (Operational barriers and shortage of skilled professionals, and Introduction of alternative technologies) influencing the growth of the nucleic acid isolation and purification market.

**Product Development/Innovation:** Detailed insights on upcoming trends, research & development activities, and new product launches in the nucleic acid isolation and purification market.

**Market Development:** Comprehensive information about lucrative markets – the report analyses the nucleic acid isolation and purification market across varied regions.

**Market Diversification:** Exhaustive information about new products, untapped geographies, recent developments, and investments in the Nucleic acid isolation and purification market

**Competitive Assessment:** In-depth assessment of market shares, growth strategies and product offerings of leading players like Thermo Fisher Scientific Inc. (US), QIAGEN (Germany), Merck KGaA (Germany), F. Hoffmann-La Roche Ltd. (Switzerland), Promega Corporation (US), Agilent Technologies, Inc. (US), Danaher(US), Bio-Rad Laboratories, Inc. (US), Illumina, Inc. (US), Takara Bio Inc. (Japan), New England Biolabs (US), Abcam Plc (UK), KILPEST India Limited (India), Apical Scientific Sdn. Bhd. (Malaysia), Endress+Hauser Group Services AG (Switzerland), GENAXXON bioscience GmbH (Germany), LGC Biosearch Technologies (US), Zymo Research Corporation (US), Norgen Biotek Corp. (Canada), Omega Bio-Tek, Inc. (US), FAVORGEN Biotech Corp. (China), TIANGEN Biotech (Beijing) Co., Ltd. (China), AutoGen Inc. (US), PCR Biosystems (UK), and Biogenuix (India).

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\*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

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