

# Automated Nucleic Acid Extraction Systems Market to Witness Robust Growth to Reach USD 10,117.7 Million by 2034

*Market sees strong growth amid rising demand for rapid, high-throughput diagnostics and advancements in molecular biology automation*

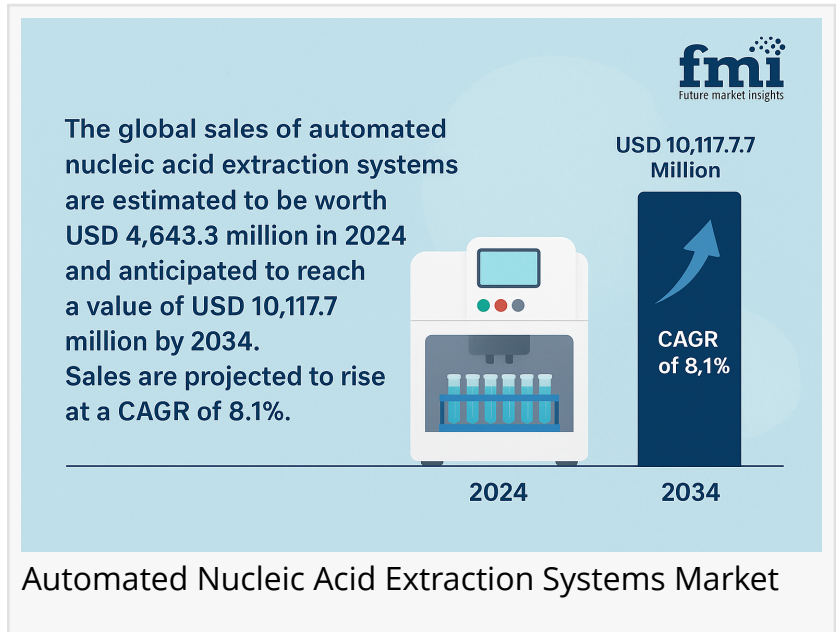
NEWARK, DE, UNITED STATES, May 26, 2025 /EINPresswire.com/ -- The global [automated nucleic acid extraction systems](#) market is set to experience significant growth, driven by the rising demand for efficient diagnostic solutions. From an estimated USD 4,643.3 million in 2024, the market is expected to soar to USD 10,117.7 million by 2034, reflecting a compound

annual growth rate (CAGR) of 8.1% over the forecast period. This growth comes on the heels of a solid market performance in 2023, which saw the sector generate USD 4,295.4 million in revenue, signaling an accelerating adoption of automated diagnostic technologies globally.

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Automation is transforming molecular diagnostics—automated nucleic acid extraction systems are setting new benchmarks in speed, accuracy, and scalability.”

*Sabyasachi Ghosh, Principal Consultant. Future Market Insights*



As the world faces an increasing need for rapid and accurate diagnostic tools, automated nucleic acid extraction systems have emerged as essential in ensuring timely disease detection, particularly for genetic disorders, cancer, and infectious diseases. These systems are playing a crucial role in enhancing diagnostic capabilities and improving patient outcomes across various healthcare settings.

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Automated nucleic acid extraction systems play a pivotal role in this evolving landscape by enabling the efficient and high-quality isolation of DNA and RNA from various biological samples. These systems offer superior precision and speed, making them indispensable for clinical and research applications.

With continuous advancements in molecular diagnostics and an increasing focus on personalized medicine, the market for automated nucleic acid extraction systems is expected to witness sustained momentum over the next decade. Industry players are investing heavily in innovation to enhance automation capabilities, improve throughput, and expand applications in diverse healthcare settings.

As healthcare providers and laboratories prioritize efficiency and accuracy in diagnostics, automated nucleic acid extraction systems will remain at the forefront of modern medical advancements, shaping the future of precision medicine and disease management.

## Market Trends to Watch

### 1. Shift Toward Fully Automated Workflows

Laboratories are moving toward end-to-end automation, incorporating nucleic acid extraction systems with PCR, sequencing, and data analysis tools to create seamless workflows. This integration enhances efficiency, minimizes errors, and supports high-throughput applications.

### 2. Growing Adoption of Point-of-Care & Portable Systems

With the rise of decentralized testing, portable and compact automated nucleic acid extraction systems are gaining traction. These solutions enable rapid on-site diagnostics in remote areas, improving accessibility to molecular testing.

### 3. Increased Utilization in Infectious Disease Testing

The demand for rapid and reliable pathogen detection is growing, particularly for viruses like SARS-CoV-2, influenza, and HIV. Automated nucleic acid extraction plays a vital role in ensuring accurate and scalable molecular diagnostics.

### 4. AI & Machine Learning Integration

Artificial intelligence (AI) and machine learning (ML) are being integrated into automated extraction systems to optimize workflows, predict potential errors, and enhance efficiency. AI-powered quality control mechanisms improve sample integrity and reduce failures.

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## Key Takeaways

- India is projected to witness the highest CAGR of 7.1% from 2024 to 2034, indicating strong market growth potential.
- China follows closely with a 6.7% CAGR, reflecting its expanding market dynamics.
- South Korea is expected to grow at a 5.4% CAGR, showing significant development in its industry.
- Spain (3.6%), Canada (3.0%), and France (2.6%) demonstrate moderate growth rates.
- Germany (1.8%) and the United States (1.7%) show relatively slower growth compared to emerging markets.

### Market Forecast (2024-2034)

The automated nucleic acid extraction systems market is expected to witness significant expansion, with a projected CAGR (compound annual growth rate) in the high single-digit to double-digit range over the next decade. Key growth factors include:

- Increased adoption in hospitals, diagnostic labs, and research institutes
- Rising funding in genomics and biotechnology
- Regulatory advancements favoring automated diagnostic tools
- Expansion of molecular testing beyond healthcare, including agriculture and food safety

The future of automated nucleic acid extraction systems is driven by technological innovations, increased adoption in molecular diagnostics, and the rising demand for precision medicine. As automation continues to redefine laboratory workflows, stakeholders in healthcare, biotechnology, and pharmaceuticals must embrace these advancements to stay ahead in a rapidly evolving market.

With automation paving the way for faster, more accurate nucleic acid extraction, the market is set to witness remarkable growth, transforming the landscape of molecular biology and diagnostics.

### Competitive Landscape

Market players are actively adopting strategic approaches to strengthen their competitive positions and expand market share. Key strategies include product differentiation through new product launches, strategic acquisitions, and collaborations with partners to enhance their

product portfolios for global market expansion.

## Recent Industry Developments in the Automated Nucleic Acid Extraction Systems Market

- August 2024 – QIAGEN expanded its Master Collaboration Agreement with AstraZeneca to develop and commercialize companion diagnostics (CDx) for AstraZeneca's pipeline therapies targeting chronic diseases.
- October 2023 – QIAGEN and Myriad Genetics entered a new master collaboration agreement to develop companion diagnostic tests in oncology. This partnership aims to provide innovative solutions to pharmaceutical companies, enabling the development of proprietary cancer tests for the U.S. clinical market and globally distributable companion diagnostic test kits.

## Key Players in the Automated Nucleic Acid Extraction Systems Market

- Thermo Fisher Scientific
- Autogen, Inc.
- QIAGEN
- ELITechGroup
- Analytik Jena AG
- bioMérieux SA
- Aurora Biomed Inc.
- Biosynex Group
- GENOLUTION
- BioChain Institute Inc.
- Promega Corporation
- Roche Diagnostics
- Bioneer Corporation
- Taigen Bioscience Corporation

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## Key Segments of Automated Nucleic Acid Extraction Systems Market

By Type:

In terms of type, the industry is divided into instruments, kits and consumables.

By End User:

In the terms of end user, the market is segmented into hospitals, diagnostic centres, forensic laboratories, pharmaceutical & biotechnology companies and academic research institutes.

By Regions:

Key countries of North America, Latin America, Western Europe, Eastern Europe, South Asia & Pacific, East Asia and Middle East and Africa (MEA) have been covered in the report.

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