

Automated Nucleic Acid Extraction Devices Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Instruments, Kits, Consumables), By Product (Fully Automated, Semi-Automated), By End User

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Abstracts

The Automated Nucleic Acid Extraction Devices Market is valued at USD 8.4 billion in 2025 and is projected to grow at a CAGR of 13.1% to reach USD 25.5 billion by 2034. The automated nucleic acid extraction devices market is growing due to the increasing demand for efficient and reliable nucleic acid extraction in molecular diagnostics and research. These devices automate the process of extracting DNA and RNA from biological samples, improving throughput and reducing human error. The market encompasses a range of devices for various applications, including PCR, sequencing, and microarray analysis.

Technological advancements in microfluidics, magnetic bead technology, and robotics are enhancing the efficiency and accuracy of nucleic acid extraction. The integration of user-friendly software and standardized protocols is improving ease of use. The market is witnessing increased demand for compact and high-throughput extraction devices.

The competitive landscape is characterized by a mix of life science equipment manufacturers, diagnostic companies, and specialized extraction device providers. Strategic partnerships and collaborations are crucial for developing integrated extraction solutions. The growing focus on personalized medicine and the increasing demand for molecular diagnostics are driving market expansion.

Key Insights Automated Nucleic Acid Extraction Devices Market

Microfluidics Integration: Enhancing extraction efficiency and miniaturization.

Magnetic Bead Technology: Improving extraction purity and yield.

Robotics and Automation: Automating the extraction process for high throughput.

User-Friendly Software: Simplifying operation and data analysis.

Compact and High-Throughput Devices: Meeting the needs of various laboratory settings.

Increased Demand for Molecular Diagnostics: Automating nucleic acid extraction for diagnostics.

Improved Efficiency and Accuracy: Reducing human error and improving throughput.

Automation in Research Laboratories: Increasing adoption of automation in life science research.

Growing Focus on Personalized Medicine: Automating nucleic acid extraction for personalized treatments.

Technological Advancements: Innovations in microfluidics and magnetic bead technology.

High Cost of Devices: Affordability and accessibility challenges for some laboratories.

Sample Preparation Complexity: Ensuring proper sample preparation for efficient extraction.

Maintenance and Calibration: Ensuring the reliability and accuracy of extraction devices.

Cross-Contamination Risks: Minimizing the risk of sample contamination.

Training and User Adoption: Training laboratory personnel to use automated systems effectively.

Automated Nucleic Acid Extraction Devices Market Segmentation

By Type

Instruments

Kits

Consumables

By Product

Fully Automated

Semi-Automated

By End User

Hospitals

Diagnostic Centers

Forensic Laboratories

Pharmaceutical and Biotechnology Companies

Academic Research Institutes

Key Companies Analysed

QIAGEN NV

PerkinElmer Inc.

F. Hoffmann-La Roche AG

Die Analytik Jena GmbH

Thermo Fisher Scientific Inc.

Accubiomed Co. Ltd.

AutoGen Inc.

Bioneer Corporation

Illumina Inc.

Tecan Trading AG

Merck Co. & KGaA

Becton Dickinson and Company

DiaSorin Molecular LLC

BioTeke Corporation (wuxi) Co. Ltd.

Tianlong-Xi'an TianLong Science and Technology Co. Ltd.

Jiangsu Bioperfectus Technologies Co. Ltd.

Hangzhou Bloer Technology Co. Ltd.

MGI Tech Co. Ltd.

Aurora Biomed Inc.

Promega Corporation

Hamilton Company

Tecan Group Ltd.

Beckman Coulter Inc.

Bio-Rad Laboratories Inc.

Zymo Research Corporation

Agilent Technologies Inc.

Danaher Corporation

BioChain Institute Inc.

Biomatrica Inc.

Corbett Life Science Pty Ltd.

Eppendorf AG

GE Healthcare Life Sciences

GenScript Biotech Corporation

Greiner Bio-One International GmbH

IntegenX Inc.

LGC Biosearch Technologies

MicroGEM International Company

Norgen Biotek Corp. .

Automated Nucleic Acid Extraction Devices Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy

security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Automated Nucleic Acid Extraction Devices Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Automated Nucleic Acid Extraction Devices market data and outlook to 2034

United States

Canada

Mexico

Europe — Automated Nucleic Acid Extraction Devices market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Automated Nucleic Acid Extraction Devices market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Automated Nucleic Acid Extraction Devices market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Automated Nucleic Acid Extraction Devices market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Automated Nucleic Acid Extraction Devices value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Automated Nucleic Acid Extraction Devices industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and

what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Automated Nucleic Acid Extraction Devices Market Report

Global Automated Nucleic Acid Extraction Devices market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Automated Nucleic Acid Extraction Devices trade, costs, and supply chains

Automated Nucleic Acid Extraction Devices market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Automated Nucleic Acid Extraction Devices market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Automated Nucleic Acid Extraction Devices market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Automated Nucleic Acid Extraction Devices supply chain analysis

Automated Nucleic Acid Extraction Devices trade analysis, Automated Nucleic Acid Extraction Devices market price analysis, and Automated Nucleic Acid Extraction Devices supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Automated Nucleic Acid Extraction Devices market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

Contents

1. TABLE OF CONTENTS

- 1.1 List of Tables
- 1.2 List of Figures

2. GLOBAL AUTOMATED NUCLEIC ACID EXTRACTION DEVICES MARKET SUMMARY, 2025

- 2.1 Automated Nucleic Acid Extraction Devices Industry Overview
 - 2.1.1 Global Automated Nucleic Acid Extraction Devices Market Revenues (In US\$ billion)
- 2.2 Automated Nucleic Acid Extraction Devices Market Scope
- 2.3 Research Methodology

3. AUTOMATED NUCLEIC ACID EXTRACTION DEVICES MARKET INSIGHTS, 2024-2034

- 3.1 Automated Nucleic Acid Extraction Devices Market Drivers
- 3.2 Automated Nucleic Acid Extraction Devices Market Restraints
- 3.3 Automated Nucleic Acid Extraction Devices Market Opportunities
- 3.4 Automated Nucleic Acid Extraction Devices Market Challenges
- 3.5 Tariff Impact on Global Automated Nucleic Acid Extraction Devices Supply Chain Patterns

4. AUTOMATED NUCLEIC ACID EXTRACTION DEVICES MARKET ANALYTICS

- 4.1 Automated Nucleic Acid Extraction Devices Market Size and Share, Key Products, 2025 Vs 2034
- 4.2 Automated Nucleic Acid Extraction Devices Market Size and Share, Dominant Applications, 2025 Vs 2034
- 4.3 Automated Nucleic Acid Extraction Devices Market Size and Share, Leading End Uses, 2025 Vs 2034
- 4.4 Automated Nucleic Acid Extraction Devices Market Size and Share, High Growth Countries, 2025 Vs 2034
- 4.5 Five Forces Analysis for Global Automated Nucleic Acid Extraction Devices Market
 - 4.5.1 Automated Nucleic Acid Extraction Devices Industry Attractiveness Index, 2025
 - 4.5.2 Automated Nucleic Acid Extraction Devices Supplier Intelligence

- 4.5.3 Automated Nucleic Acid Extraction Devices Buyer Intelligence
- 4.5.4 Automated Nucleic Acid Extraction Devices Competition Intelligence
- 4.5.5 Automated Nucleic Acid Extraction Devices Product Alternatives and Substitutes Intelligence
- 4.5.6 Automated Nucleic Acid Extraction Devices Market Entry Intelligence

5. GLOBAL AUTOMATED NUCLEIC ACID EXTRACTION DEVICES MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034

- 5.1 World Automated Nucleic Acid Extraction Devices Market Size, Potential and Growth Outlook, 2024- 2034 (\$ billion)
- 5.1 Global Automated Nucleic Acid Extraction Devices Sales Outlook and CAGR Growth By Type, 2024- 2034 (\$ billion)
- 5.2 Global Automated Nucleic Acid Extraction Devices Sales Outlook and CAGR Growth By Product, 2024- 2034 (\$ billion)
- 5.3 Global Automated Nucleic Acid Extraction Devices Sales Outlook and CAGR Growth By End User, 2024- 2034 (\$ billion)
- 5.4 Global Automated Nucleic Acid Extraction Devices Market Sales Outlook and Growth by Region, 2024- 2034 (\$ billion)

6. ASIA PACIFIC AUTOMATED NUCLEIC ACID EXTRACTION DEVICES INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK

- 6.1 Asia Pacific Automated Nucleic Acid Extraction Devices Market Insights, 2025
- 6.2 Asia Pacific Automated Nucleic Acid Extraction Devices Market Revenue Forecast By Type, 2024- 2034 (USD billion)
- 6.3 Asia Pacific Automated Nucleic Acid Extraction Devices Market Revenue Forecast By Product, 2024- 2034 (USD billion)
- 6.4 Asia Pacific Automated Nucleic Acid Extraction Devices Market Revenue Forecast By End User, 2024- 2034 (USD billion)
- 6.5 Asia Pacific Automated Nucleic Acid Extraction Devices Market Revenue Forecast by Country, 2024- 2034 (USD billion)
 - 6.5.1 China Automated Nucleic Acid Extraction Devices Market Size, Opportunities, Growth 2024- 2034
 - 6.5.2 India Automated Nucleic Acid Extraction Devices Market Size, Opportunities, Growth 2024- 2034
 - 6.5.3 Japan Automated Nucleic Acid Extraction Devices Market Size, Opportunities, Growth 2024- 2034

6.5.4 Australia Automated Nucleic Acid Extraction Devices Market Size, Opportunities, Growth 2024- 2034

7. EUROPE AUTOMATED NUCLEIC ACID EXTRACTION DEVICES MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034

7.1 Europe Automated Nucleic Acid Extraction Devices Market Key Findings, 2025

7.2 Europe Automated Nucleic Acid Extraction Devices Market Size and Percentage Breakdown By Type, 2024- 2034 (USD billion)

7.3 Europe Automated Nucleic Acid Extraction Devices Market Size and Percentage Breakdown By Product, 2024- 2034 (USD billion)

7.4 Europe Automated Nucleic Acid Extraction Devices Market Size and Percentage Breakdown By End User, 2024- 2034 (USD billion)

7.5 Europe Automated Nucleic Acid Extraction Devices Market Size and Percentage Breakdown by Country, 2024- 2034 (USD billion)

7.5.1 Germany Automated Nucleic Acid Extraction Devices Market Size, Trends, Growth Outlook to 2034

7.5.2 United Kingdom Automated Nucleic Acid Extraction Devices Market Size, Trends, Growth Outlook to 2034

7.5.2 France Automated Nucleic Acid Extraction Devices Market Size, Trends, Growth Outlook to 2034

7.5.2 Italy Automated Nucleic Acid Extraction Devices Market Size, Trends, Growth Outlook to 2034

7.5.2 Spain Automated Nucleic Acid Extraction Devices Market Size, Trends, Growth Outlook to 2034

8. NORTH AMERICA AUTOMATED NUCLEIC ACID EXTRACTION DEVICES MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034

8.1 North America Snapshot, 2025

8.2 North America Automated Nucleic Acid Extraction Devices Market Analysis and Outlook By Type, 2024- 2034 (\$ billion)

8.3 North America Automated Nucleic Acid Extraction Devices Market Analysis and Outlook By Product, 2024- 2034 (\$ billion)

8.4 North America Automated Nucleic Acid Extraction Devices Market Analysis and Outlook By End User, 2024- 2034 (\$ billion)

8.5 North America Automated Nucleic Acid Extraction Devices Market Analysis and Outlook by Country, 2024- 2034 (\$ billion)

8.5.1 United States Automated Nucleic Acid Extraction Devices Market Size, Share,

Growth Trends and Forecast, 2024- 2034

8.5.1 Canada Automated Nucleic Acid Extraction Devices Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.5.1 Mexico Automated Nucleic Acid Extraction Devices Market Size, Share, Growth Trends and Forecast, 2024- 2034

9. SOUTH AND CENTRAL AMERICA AUTOMATED NUCLEIC ACID EXTRACTION DEVICES MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS

9.1 Latin America Automated Nucleic Acid Extraction Devices Market Data, 2025

9.2 Latin America Automated Nucleic Acid Extraction Devices Market Future By Type, 2024- 2034 (\$ billion)

9.3 Latin America Automated Nucleic Acid Extraction Devices Market Future By Product, 2024- 2034 (\$ billion)

9.4 Latin America Automated Nucleic Acid Extraction Devices Market Future By End User, 2024- 2034 (\$ billion)

9.5 Latin America Automated Nucleic Acid Extraction Devices Market Future by Country, 2024- 2034 (\$ billion)

9.5.1 Brazil Automated Nucleic Acid Extraction Devices Market Size, Share and Opportunities to 2034

9.5.2 Argentina Automated Nucleic Acid Extraction Devices Market Size, Share and Opportunities to 2034

10. MIDDLE EAST AFRICA AUTOMATED NUCLEIC ACID EXTRACTION DEVICES MARKET OUTLOOK AND GROWTH PROSPECTS

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa Automated Nucleic Acid Extraction Devices Market Statistics By Type, 2024- 2034 (USD billion)

10.3 Middle East Africa Automated Nucleic Acid Extraction Devices Market Statistics By Product, 2024- 2034 (USD billion)

10.4 Middle East Africa Automated Nucleic Acid Extraction Devices Market Statistics By End User, 2024- 2034 (USD billion)

10.5 Middle East Africa Automated Nucleic Acid Extraction Devices Market Statistics by Country, 2024- 2034 (USD billion)

10.5.1 Middle East Automated Nucleic Acid Extraction Devices Market Value, Trends, Growth Forecasts to 2034

10.5.2 Africa Automated Nucleic Acid Extraction Devices Market Value, Trends, Growth Forecasts to 2034

11. AUTOMATED NUCLEIC ACID EXTRACTION DEVICES MARKET STRUCTURE AND COMPETITIVE LANDSCAPE

- 11.1 Key Companies in Automated Nucleic Acid Extraction Devices Industry
- 11.2 Automated Nucleic Acid Extraction Devices Business Overview
- 11.3 Automated Nucleic Acid Extraction Devices Product Portfolio Analysis
- 11.4 Financial Analysis
- 11.5 SWOT Analysis

12 APPENDIX

- 12.1 Global Automated Nucleic Acid Extraction Devices Market Volume (Tons)
- 12.1 Global Automated Nucleic Acid Extraction Devices Trade and Price Analysis
- 12.2 Automated Nucleic Acid Extraction Devices Parent Market and Other Relevant Analysis
- 12.3 Publisher Expertise
- 12.2 Automated Nucleic Acid Extraction Devices Industry Report Sources and Methodology

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