

Automated Nucleic Acid Extraction Market Size, Share & Trends Analysis Report By Product (Instruments, Reagents & Consumables), By Technology (Magnetic Bead-based, Column-based), By Application, By End Use, By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

The global automated nucleic acid extraction market size was valued at USD 3.22 billion in 2024 and is expected to reach USD 8.77 billion by 2033, registering a CAGR of 11.89% from 2025 to 2033. Continuous advancements in extraction technologies, combined with the growing applications of genomics in precision medicine, infectious disease testing, and biotechnology research, are further driving market expansion.

Technological innovation enabling new sample types and challenging technologies

Technological developments are stimulating the robust adoption of automated nucleic acid extraction systems by making it easier to process complex sample types, such as those with shallow volumes, clinical samples, FFPE tissues, and circulating cell-free nucleic acids. These developments will provide increased sensitivity, reproducibility, and throughput, while yielding high-quality DNA/RNA that is essential for diagnostics, precision medicine, and research.

Moreover, advanced automated solutions are now finely integrated into downstream technologies such as high-throughput PCR, NGS library preparation, and digital PCR, to lessen manual handling and improve turnaround times. Overall, as healthcare and research environments move towards automation, high-volume genomic testing, and precision oncology, automated nucleic acid extraction is increasingly essential to contemporary molecular technologies.

Global Automated Nucleic Acid Extraction Market Report Segmentation

This report forecasts revenue growth at the global, regional and country levels and provides an analysis of the latest trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global automated nucleic acid extraction market report on the basis of product, technology, application, end use, and region:

Product Outlook (Revenue, USD Million, 2021 - 2033)

Instruments

Reagents & Consumables

Technology Outlook (Revenue, USD Million, 2021 - 2033)

Magnetic Bead-based

Column-based

Others

Application Outlook (Revenue, USD Million, 2021 - 2033)

DNA Extraction

Genomic DNA Extraction

Plasmid DNA Extraction

Others

RNA Extraction

mRNA Extraction

miRNA Extraction

Total RNA Extraction

Others

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Academic & Research Institutes

Pharmaceutical & Biotechnology Companies

Contract Research Organizations

Hospitals and Diagnostic Centers

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

China

Japan

India

South Korea

Australia

Thailand

Latin America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

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