

South Korea Molecular Diagnostics Market Size, Share, Trends and Forecast by Product, Technology, Application, End User, and Region, 2026-2034

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Abstracts

The South Korea molecular diagnostics market size reached USD 427.2 Million in 2025. The market is projected to reach USD 835.9 Million by 2034, exhibiting a growth rate (CAGR) of 7.51% during 2026-2034. The market is expanding due to the increasing adoption of precision medicine, rising cancer cases, and demand for advanced diagnostic tools. Additionally, strong investment in biomarker research and digital health technologies continues to support South Korea molecular diagnostics market share across clinical laboratories, hospitals, and research institutions.

SOUTH KOREA MOLECULAR DIAGNOSTICS MARKET TRENDS:

Rising Focus on Personalized Cancer Diagnostics

The South Korea molecular diagnostics market growth is being propelled by the increasing demand for personalized medicine, particularly in oncology. As cancer prevalence continues to rise, healthcare providers and diagnostic companies are focusing on solutions that enable early detection and precise identification of genetic mutations. These advances allow for targeted therapies and reduce the risk of ineffective treatments, improving both patient outcomes and healthcare efficiency. Precision diagnostics are becoming a foundational element in clinical decision-making, especially as payers and providers emphasize value-based care. The push toward integrating biomarker-based diagnostics into routine cancer treatment is reshaping diagnostic protocols nationwide. In October 2024, Ngenebio launched the Oncoaccupanel RNA diagnostic panel in South Korea for detecting oncogenic fusion genes in solid tumors. This RNA-based diagnostic panel supports the identification of fusion genes critical in cancer progression and therapy selection. Its adoption

underscores a growing national focus on personalized diagnostic tools that enhance accuracy and therapeutic alignment. The integration of such advanced panels into oncology workflows reflects a larger trend of investing in molecular-level insights for better patient management. With government backing and growing hospital infrastructure, South Korea is rapidly becoming a hub for innovative cancer diagnostics, reinforcing the expansion and depth of its molecular diagnostics capabilities in real-world clinical settings.

Technology Integration and Strategic Partnerships

The strategic alignment of biotechnology and digital platforms through collaborative partnerships is positively impacting the market expansion. Diagnostic innovation increasingly depends on combining high-quality biomarker research with advanced data analytics and automation to support fast, reliable testing services. These collaborations are not only improving diagnostic precision but also enabling scalable platforms for broader clinical use. South Korean firms are recognizing the value of integrating hardware, software, and biological research to provide seamless, end-to-end diagnostic solutions that address the full spectrum of patient care. This technology-first mindset is enabling rapid turnaround times, improving workflow efficiency, and ensuring high reliability in test outcomes. In August 2024, Hitachi High-Tech partnered with South Korea's Gencurix to advance cancer molecular diagnostics by combining biomarker discovery with digital technology. This partnership aimed to build highly accurate, personalized cancer testing services and is part of a broader strategy to meet growing demand for real-time, actionable diagnostic information. The collaboration illustrates a shift toward technology-driven diagnostics, moving beyond traditional testing models. It also highlights how cross-border and cross-sector partnerships are becoming essential in elevating diagnostic service delivery in South Korea. As a result, the market is witnessing stronger integration of molecular diagnostics into hospital systems and research labs, creating new opportunities for growth and innovation.

SOUTH KOREA MOLECULAR DIAGNOSTICS MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional level for 2026-2034. Our report has categorized the market based on product, technology, application, and end user.

Product Insights:

Reagents and Kits

Instruments

Software and Services

The report has provided a detailed breakup and analysis of the market based on the product. This includes reagents and kits, instruments, and software and services.

Technology Insights:

Polymerase Chain Reactions (PCR)

Hybridization

DNA Sequencing

Microarray

Isothermal Nucleic Acid Amplification Technology (INAAT)

Others

A detailed breakup and analysis of the market based on the technology have also been provided in the report. This includes polymerase chain reactions (PCR), hybridization, DNA sequencing, microarray, isothermal nucleic acid amplification technology (INAAT), and others.

Application Insights:

Infectious Diseases Diagnostics

Oncology

Genetic Testing

Blood Screening

Others

The report has provided a detailed breakup and analysis of the market based on the application. This includes infectious diseases diagnostics, oncology, genetic testing, blood screening, and others.

End User Insights:

Hospitals

Laboratories

Others

A detailed breakup and analysis of the market based on the end user have also been provided in the report. This includes hospitals, laboratories, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the

competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the South Korea molecular diagnostics market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea molecular diagnostics market on the basis of product?

What is the breakup of the South Korea molecular diagnostics market on the basis of technology?

What is the breakup of the South Korea molecular diagnostics market on the basis of application?

What is the breakup of the South Korea molecular diagnostics market on the basis of end user?

What is the breakup of the South Korea molecular diagnostics market on the basis of region?

What are the various stages in the value chain of the South Korea molecular diagnostics market?

What are the key driving factors and challenges in the South Korea molecular diagnostics market?

What is the structure of the South Korea molecular diagnostics market and who are the key players?

What is the degree of competition in the South Korea molecular diagnostics market?

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