

South Korea Spectrometry Market Size, Share, Trends and Forecast by Type, Product, Application, End User, and Region, 2026-2034

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Abstracts

The South Korea spectrometry market size reached USD 331.9 Million in 2025. The market is projected to reach USD 536.6 Million by 2034, exhibiting a growth rate (CAGR) of 5.32% during 2026-2034. The market is advancing through adoption of diverse technologies including molecular, mass, and atomic spectrometry to support pharmaceuticals, environmental testing, and academic research. Ongoing innovation in next-generation and LC-MS platforms reflects the nation's commitment to precision science and industrial competitiveness. These developments are shaping a strong future trajectory for South Korea spectrometry market share.

SOUTH KOREA SPECTROMETRY MARKET TRENDS:

Expansion of Laboratory Gas Infrastructure

In July 2024, a new facility was opened in Daejeon by a global laboratory gas solutions provider, expanding its footprint in South Korea to support rising demand for scientific instrumentation. This second location enhances national capacity to support spectrometry workflows by improving service responsiveness and localized customer engagement. The facility launch was accompanied by active recruitment across service, sales, and support teams signaling deeper investment in South Korea's growing life sciences and analytical chemistry sectors. The location in Daejeon, a major research and industrial hub, strategically places technical teams closer to clients using gas generators for mass spectrometry and other analytical platforms. This expansion also supports the national emphasis on building out research infrastructure, aligning with broader goals to foster scientific innovation and autonomy. As demand for real-time, precision analytical systems increase, support ecosystems like these will be essential in

reducing downtime, increasing throughput, and expanding operational capacity. This momentum reflects an encouraging shift in infrastructure maturity, reinforcing South Korea's readiness to support sustained growth in its spectrometry market.

Population Scale Proteomics in Action

In June 2025, Korea University launched a landmark study using a next-generation proteomics workflow capable of processing 20,000 plasma samples via mass spectrometry, an achievement that marks a new level of scale in South Korea's analytical capabilities. This initiative supports large-cohort exploration of early-onset cancer in young adults, leveraging automated SP200 instruments and AI-driven analysis. It demonstrates how high-throughput spectrometry platforms can be integrated into population-level research, particularly when supported by national health initiatives. The project is funded under the Ministry of Health and Welfare's K-Health MIRAE program, illustrating a coordinated effort to couple technological infrastructure with strategic health objectives. High-frequency workflow processing over a thousand samples weekly enables deep proteome insight that will inform diagnostic pipelines and biomarker discovery. As this proteomic initiative scales, it validates the role of mass spectrometry as a core tool for translational research and precision medicine. The success of this study signals growing capacity and maturity in large-scale analytical applications and reinforces South Korea spectrometry market trends.

Expansion of Electron Paramagnetic Resonance (EPR) Capability

In April 2025, CIQTEK appointed BK Instruments Inc. as the exclusive distributor of Electron Paramagnetic Resonance (EPR) spectrometers in South Korea, opening the door for expanded domestic access to high-end EPR instrumentation. This move enables Korean research institutions and industrial labs to access EPR systems with localized support, including installation, maintenance, and training all essential for scaling usage in precision environments. EPR is a powerful technique used to study unpaired electrons in complex materials and has become vital in disciplines like materials science, clean energy research, and biophysics. With this distribution agreement, more Korean laboratories will be able to incorporate EPR into both academic and applied research workflows. Faster response times and stronger technical service are expected to drive increased adoption across sectors that demand highly sensitive spectrometry. This shift supports South Korea's broader strategy of strengthening its analytical instrumentation base while keeping pace with international standards. As new technologies are introduced with strong local infrastructure, the scientific ecosystem becomes more agile, better equipped, and more capable of

supporting advanced exploration and diagnostic research.

SOUTH KOREA SPECTROMETRY 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 levels for 2026-2034. Our report has categorized the market based on type, product, application, and end user.

Type Insights:

Molecular Spectrometry

Visible and Ultraviolet Spectroscopy

Infrared Spectroscopy

Nuclear Magnetic Resonance (NMR) Spectroscopy

Others

Mass Spectrometry (MS)

MALDI-TOF

Triple Quadrupole

Quadrupole-Trap

Hybrid Linear Ion Trap Orbitrap

Quadrupole-Orbitrap

Atomic Spectrometry

Atomic Absorption Spectroscopy (AAS)

Atomic Emission Spectroscopy (AES)

Atomic Fluorescence Spectroscopy (AFS)

X-ray Fluorescence (XRF)

Inorganic Mass Spectroscopy

The report has provided a detailed breakup and analysis of the market based on the type. This includes molecular spectrometry (visible and ultraviolet spectroscopy, infrared spectroscopy, nuclear magnetic resonance (NMR) spectroscopy, and others), mass spectrometry (MS) (MALDI-TOF, triple quadrupole, quadrupole-trap, hybrid linear ion trap orbitrap, and quadrupole-orbitrap), and atomic spectrometry (atomic absorption spectroscopy (AAS), atomic emission spectroscopy (AES), atomic fluorescence spectroscopy (AFS), x-ray fluorescence (XRF), and inorganic mass spectroscopy).

Product Insights:

Instruments

Consumables

Services

A detailed breakup and analysis of the market based on the product have also been provided in the report. This includes instruments, consumables, and services.

Application Insights:

Proteomics

Metabolomics

Pharmaceutical Analysis

Forensic Analysis

The report has provided a detailed breakup and analysis of the market based on the application. This includes proteomics, metabolomics, pharmaceutical analysis, forensic

analysis, and others.

End User Insights:

Government and Academic Institutions

Pharmaceutical and Biotechnology Companies

A detailed breakup and analysis of the market based on the end user have also been provided in the report. This includes government and academic institutions, pharmaceutical and biotechnology companies, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

The report has also provided a comprehensive analysis of all the major regional markets, which include the 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 spectrometry market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea spectrometry market on the basis of type?

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

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

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

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

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

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

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

What is the degree of competition in the South Korea spectrometry market?

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