

South Korea Biosensors Market Size, Share, Trends and Forecast by Product, Technology, Application, End Use, and Region, 2026-2034

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Abstracts

The South Korea biosensors market size reached USD 629.8 Million in 2025 . Looking forward, IMARC Group expects the market to reach USD 1,173.4 Million by 2034 , exhibiting a growth rate (CAGR) of 6.80 % during 2026-2034 . The rising prevalence of chronic diseases like diabetes, cardiovascular conditions, and respiratory diseases in South Korea is impelling the market growth. Moreover, technological advancement has been the major force in fueling the market growth. Apart from this, the government policies and investments in healthcare technology are expanding the South Korea biosensors market share.

SOUTH KOREA BIOSENSORS MARKET TRENDS:

Increasing Occurrence of Chronic Ailments

The rising prevalence of chronic diseases like diabetes, cardiovascular conditions, and respiratory diseases in South Korea is impelling the market growth. The country has witnessed a gradual increase in the number of chronic disease cases, which is mainly attributed to the aging population and lifestyle factors, such as a deteriorating diet and lower levels of physical activity. As a result, the Korean Diabetes Association (KDA) has created the 2025 Diabetes Clinical Practice Guidelines to offer evidence-based advice regarding the diagnosis, screening, prevention, and management of diabetes and its related complications. This is encouraging the usage of efficient technologies to manage diabetes among the masses. Biosensors provide real-time measurement of blood glucose levels, heart rate, and other vital signs to patients, giving them more effective management choices. The need for inexpensive, non-invasive, and effective diagnostic equipment has driven the market for wearable biosensors, particularly those

concerning glucose monitoring for diabetic individuals. Furthermore, South Korea's health system prioritizes preventative medicine, which has contributed to the increased use of these devices as well. The need for ongoing health monitoring solutions has spurred the progress of sophisticated biosensors, which will guarantee improved disease control and improve patient outcomes.

Biosensor Device Technological Advances in Device

Technological improvements have been the major force in fueling the South Korea biosensors market growth. Development in sensor technology, miniaturization, and the integration of biosensors with smartphones and other digital health platforms have revolutionized the manner in which health monitoring is performed. Materials science advancements, including nanomaterials for enhanced sensitivity and accuracy for detection, have greatly enhanced the performance of biosensors. The growing need for point-of-care (POC) testing and home health monitoring products is also driving the market. Additionally, the confluence of biosensors with artificial intelligence (AI) and machine learning algorithms provides real-time data analytics, further amplifying diagnostic capabilities and patient management. All these have made the use of biosensors more convenient and economical, driving their use not just in clinical environments but among consumers looking for personal health monitoring products as well.

Public Support and Funding for Healthcare Innovation

Government policies and investments in healthcare technology are offering a favorable market outlook. The government of South Korea has made healthcare technology a priority in its national strategy to counter the demographic problem of aging and the growing burden of healthcare. Research and development (R&D) support programs for medical devices, including biosensors, have spurred innovation and commercialization of these devices. Moreover, the administration has offered subsidies and incentives for uptake of advanced medical technologies in public as well as private healthcare. The aid has been effective in creating a conducive climate for the evolution of innovative biosensor solutions, strengthening the market growth. South Korea's active emphasis on technology and innovation and policies to enhance healthcare infrastructure continues to provide opportunities for biosensor manufacturers to establish increased presence within the market.

SOUTH KOREA BIOSENSORS 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 product, technology, application, and end use.

Product Insights:

Wearable Biosensors

Non-Wearable Biosensors

The report has provided a detailed breakup and analysis of the market based on the product. This includes wearable biosensors and non-wearable biosensors.

Technology Insights:

Electrochemical Biosensors

Optical Biosensors

Piezoelectric Biosensors

Thermal Biosensors

Nanomechanical Biosensors

Others

A detailed breakup and analysis of the market based on the technology have also been provided in the report. This includes electrochemical biosensors, optical biosensors, piezoelectric biosensors, thermal biosensors, nanomechanical biosensors, and others.

Application Insights:

Blood Glucose Testing

Cholesterol Testing

Blood Gas Analysis

Pregnancy Testing

Drug Discovery

Infectious Disease Testing

Others

The report has provided a detailed breakup and analysis of the market based on the application. This includes blood glucose testing, cholesterol testing, blood gas analysis, pregnancy testing, drug discovery, infectious disease testing, and others.

End Use Insights:

Point of Care Testing

Home Healthcare Diagnostics

Research Laboratories

Security and Biodefense

Others

A detailed breakup and analysis of the market based on the end use have also been provided in the report. This includes point of care testing, home healthcare diagnostics, research laboratories, security and biodefense, 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 biosensors market performed so far and how will it perform in the coming years?

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

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

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

What is the breakup of the South Korea biosensors market on the basis of end use?

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

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

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

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

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

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 SOUTH KOREA BIOSENSORS MARKET - INTRODUCTION

- 4.1 Overview
- 4.2 Market Dynamics
- 4.3 Industry Trends
- 4.4 Competitive Intelligence

5 SOUTH KOREA BIOSENSORS MARKET LANDSCAPE

- 5.1 Historical and Current Market Trends (2020-2025)
- 5.2 Market Forecast (2026-2034)

6 SOUTH KOREA BIOSENSORS MARKET - BREAKUP BY PRODUCT

- 6.1 Wearable Biosensors
 - 6.1.1 Overview
 - 6.1.2 Historical and Current Market Trends (2020-2025)
 - 6.1.3 Market Forecast (2026-2034)
- 6.2 Non-Wearable Biosensors
 - 6.2.1 Overview
 - 6.2.2 Historical and Current Market Trends (2020-2025)

6.2.3 Market Forecast (2026-2034)

7 SOUTH KOREA BIOSENSORS MARKET - BREAKUP BY TECHNOLOGY

7.1 Electrochemical Biosensors

7.1.1 Overview

7.1.2 Historical and Current Market Trends (2020-2025)

7.1.3 Market Forecast (2026-2034)

7.2 Optical Biosensors

7.2.1 Overview

7.2.2 Historical and Current Market Trends (2020-2025)

7.2.3 Market Forecast (2026-2034)

7.3 Piezoelectric Biosensors

7.3.1 Overview

7.3.2 Historical and Current Market Trends (2020-2025)

7.3.3 Market Forecast (2026-2034)

7.4 Thermal Biosensors

7.4.1 Overview

7.4.2 Historical and Current Market Trends (2020-2025)

7.4.3 Market Forecast (2026-2034)

7.5 Nanomechanical Biosensors

7.5.1 Overview

7.5.2 Historical and Current Market Trends (2020-2025)

7.5.3 Market Forecast (2026-2034)

7.6 Others

7.6.1 Historical and Current Market Trends (2020-2025)

7.6.2 Market Forecast (2026-2034)

8 SOUTH KOREA BIOSENSORS MARKET - BREAKUP BY APPLICATION

8.1 Blood Glucose Testing

8.1.1 Overview

8.1.2 Historical and Current Market Trends (2020-2025)

8.1.3 Market Forecast (2026-2034)

8.2 Cholesterol Testing

8.2.1 Overview

8.2.2 Historical and Current Market Trends (2020-2025)

8.2.3 Market Forecast (2026-2034)

8.3 Blood Gas Analysis

- 8.3.1 Overview
- 8.3.2 Historical and Current Market Trends (2020-2025)
- 8.3.3 Market Forecast (2026-2034)
- 8.4 Pregnancy Testing
 - 8.4.1 Overview
 - 8.4.2 Historical and Current Market Trends (2020-2025)
 - 8.4.3 Market Forecast (2026-2034)
- 8.5 Drug Discovery
 - 8.5.1 Overview
 - 8.5.2 Historical and Current Market Trends (2020-2025)
 - 8.5.3 Market Forecast (2026-2034)
- 8.6 Infectious Disease Testing
 - 8.6.1 Overview
 - 8.6.2 Historical and Current Market Trends (2020-2025)
 - 8.6.3 Market Forecast (2026-2034)
- 8.7 Others
 - 8.7.1 Historical and Current Market Trends (2020-2025)
 - 8.7.2 Market Forecast (2026-2034)

9 SOUTH KOREA BIOSENSORS MARKET - BREAKUP BY END USE

- 9.1 Point of Care Testing
 - 9.1.1 Overview
 - 9.1.2 Historical and Current Market Trends (2020-2025)
 - 9.1.3 Market Forecast (2026-2034)
- 9.2 Home Healthcare Diagnostics
 - 9.2.1 Overview
 - 9.2.2 Historical and Current Market Trends (2020-2025)
 - 9.2.3 Market Forecast (2026-2034)
- 9.3 Research Laboratories
 - 9.3.1 Overview
 - 9.3.2 Historical and Current Market Trends (2020-2025)
 - 9.3.3 Market Forecast (2026-2034)
- 9.4 Security and Biodefense
 - 9.4.1 Overview
 - 9.4.2 Historical and Current Market Trends (2020-2025)
 - 9.4.3 Market Forecast (2026-2034)
- 9.5 Others
 - 9.5.1 Historical and Current Market Trends (2020-2025)

9.5.2 Market Forecast (2026-2034)

10 SOUTH KOREA BIOSENSORS MARKET – BREAKUP BY REGION

10.1 Seoul Capital Area

10.1.1 Overview

10.1.2 Historical and Current Market Trends (2020-2025)

10.1.3 Market Breakup by Product

10.1.4 Market Breakup by Technology

10.1.5 Market Breakup by Application

10.1.6 Market Breakup by End Use

10.1.7 Key Players

10.1.8 Market Forecast (2026-2034)

10.2 Yeongnam (Southeastern Region)

10.2.1 Overview

10.2.2 Historical and Current Market Trends (2020-2025)

10.2.3 Market Breakup by Product

10.2.4 Market Breakup by Technology

10.2.5 Market Breakup by Application

10.2.6 Market Breakup by End Use

10.2.7 Key Players

10.2.8 Market Forecast (2026-2034)

10.3 Honam (Southwestern Region)

10.3.1 Overview

10.3.2 Historical and Current Market Trends (2020-2025)

10.3.3 Market Breakup by Product

10.3.4 Market Breakup by Technology

10.3.5 Market Breakup by Application

10.3.6 Market Breakup by End Use

10.3.7 Key Players

10.3.8 Market Forecast (2026-2034)

10.4 Hoseo (Central Region)

10.4.1 Overview

10.4.2 Historical and Current Market Trends (2020-2025)

10.4.3 Market Breakup by Product

10.4.4 Market Breakup by Technology

10.4.5 Market Breakup by Application

10.4.6 Market Breakup by End Use

10.4.7 Key Players

10.4.8 Market Forecast (2026-2034)

10.5 Others

10.5.1 Historical and Current Market Trends (2020-2025)

10.5.2 Market Forecast (2026-2034)

11 SOUTH KOREA BIOSENSORS MARKET – COMPETITIVE LANDSCAPE

11.1 Overview

11.2 Market Structure

11.3 Market Player Positioning

11.4 Top Winning Strategies

11.5 Competitive Dashboard

11.6 Company Evaluation Quadrant

12 PROFILES OF KEY PLAYERS

12.1 Company A

12.1.1 Business Overview

12.1.2 Products Offered

12.1.3 Business Strategies

12.1.4 SWOT Analysis

12.1.5 Major News and Events

12.2 Company B

12.2.1 Business Overview

12.2.2 Products Offered

12.2.3 Business Strategies

12.2.4 SWOT Analysis

12.2.5 Major News and Events

12.3 Company C

12.3.1 Business Overview

12.3.2 Products Offered

12.3.3 Business Strategies

12.3.4 SWOT Analysis

12.3.5 Major News and Events

12.4 Company D

12.4.1 Business Overview

12.4.2 Products Offered

12.4.3 Business Strategies

12.4.4 SWOT Analysis

12.4.5 Major News and Events

12.5 Company E

12.5.1 Business Overview

12.5.2 Products Offered

12.5.3 Business Strategies

12.5.4 SWOT Analysis

12.5.5 Major News and Events

13 SOUTH KOREA BIOSENSORS MARKET - INDUSTRY ANALYSIS

13.1 Drivers, Restraints, and Opportunities

13.1.1 Overview

13.1.2 Drivers

13.1.3 Restraints

13.1.4 Opportunities

13.2 Porters Five Forces Analysis

13.2.1 Overview

13.2.2 Bargaining Power of Buyers

13.2.3 Bargaining Power of Suppliers

13.2.4 Degree of Competition

13.2.5 Threat of New Entrants

13.2.6 Threat of Substitutes

13.3 Value Chain Analysis

14 APPENDIX

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