

# **Biosensors Market Size, Trends, Analysis, and Outlook By Technology (Thermal, Electrochemical, Piezoelectric, Optical), By Application (Medical, Food Toxicity, Bioreactor, Agriculture, Environment, Others), By End-User (Home Healthcare Diagnostics, PoC Testing, Food Industry, Research Laboratories, Security & Bio-Defense), by Region, Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global Biosensors market size is poised to register 7.87% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Biosensors market across By Technology (Thermal, Electrochemical, Piezoelectric, Optical), By Application (Medical, Food Toxicity, Bioreactor, Agriculture, Environment, Others), By End-User (Home Healthcare Diagnostics, PoC Testing, Food Industry, Research Laboratories, Security & Bio-Defense).

The biosensors market is witnessing significant growth driven by several factors in 2024 and beyond. Biosensors are analytical devices that combine biological components such as enzymes, antibodies, or living cells with physicochemical sensors to detect and quantify target analytes in various samples, offering rapid, sensitive, and specific detection capabilities across diverse applications. Market growth is fueled by the increasing adoption of biosensors in healthcare diagnostics, food safety monitoring, environmental surveillance, and bioprocess monitoring, driving demand for accurate, portable, and cost-effective analytical solutions. Moreover, advancements in nanotechnology, microfluidics, and bioinformatics are driving the development of next-

generation biosensors with enhanced sensitivity, selectivity, and multiplexing capabilities, expanding their utility in point-of-care testing and personalized medicine applications. Additionally, the growing focus on precision agriculture, environmental monitoring, and wearable health monitoring devices is driving the integration of biosensors into smart devices and Internet of Things (IoT) platforms, further propelling market growth. Furthermore, strategic collaborations between biosensor manufacturers, academic research institutions, and end-user industries are driving innovation, standardization, and market penetration efforts, shaping industry trends and competitiveness.

### Biosensors Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Biosensors market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Biosensors survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Biosensors industry.

### Key market trends defining the global Biosensors demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

### Biosensors Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Biosensors industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Biosensors companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

### Key strategies adopted by companies within the Biosensors industry

Leading Biosensors companies are boosting investments to capitalize on untapped

potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Biosensors companies.

### Biosensors Market Study- Strategic Analysis Review

The Biosensors market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

### Biosensors Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Biosensors industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

### Biosensors Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

## North America Biosensors Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Biosensors market segments. Similarly, Strong end-user demand is encouraging Canadian Biosensors companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Biosensors market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

## Europe Biosensors Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Biosensors industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Biosensors market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

## Asia Pacific Biosensors Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Biosensors in Asia Pacific. In particular, China, India, and South East Asian Biosensors markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive

outlook of 6 major markets in the region.

Latin America Biosensors Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Biosensors Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Biosensors market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Biosensors.

Biosensors Market Company Profiles

The global Biosensors market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Abbott Laboratories, Bio-Rad Laboratories Inc, Biosensors International Group Ltd, DuPont Biosensor Materials, Ercon Inc, Johnson & Johnson, Koninklijke Philips N.V., LifeScan Inc, Medtronic, Molecular Devices Corp, Molex LLC, Nova Biomedical, Pinnacle Technologies Inc, QTL Biodetection LLC, Siemens Healthcare, TDK Corp, Zimmer & Peacock AS

Recent Biosensors Market Developments

The global Biosensors market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

Biosensors Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

### Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

### Market Segmentation:

By Technology

Thermal

Electrochemical

Piezoelectric

Optical

By Application

Medical

-Cholesterol

-Blood glucose

-Blood gas analyzer

-Pregnancy testing

-Drug discovery

-Infectious disease

Food Toxicity

Bioreactor

Agriculture

Environment

Others

By End-user

Home Healthcare Diagnostics

PoC Testing

Food Industry

Research Laboratories

Security & Bio-Defense

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

## Companies

Abbott Laboratories

Bio-Rad Laboratories Inc

Biosensors International Group Ltd

DuPont Biosensor Materials

Ercon Inc

Johnson & Johnson

Koninklijke Philips N.V.

LifeScan Inc

Medtronic

Molecular Devices Corp

Molex LLC

Nova Biomedical

Pinnacle Technologies Inc

QTL Biodetection LLC



Siemens Healthcare

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Formats Available: Excel, PDF, and PPT

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    - Electrochemical
    - Piezoelectric

Optical

By Application

Medical

-Cholesterol

-Blood glucose

-Blood gas analyzer

-Pregnancy testing

-Drug discovery

-Infectious disease

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  - Ercon Inc
  - Johnson & Johnson
  - Koninklijke Philips N.V.
  - LifeScan Inc
  - Medtronic
  - Molecular Devices Corp
  - Molex LLC
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  - Zimmer & Peacock AS

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