

Biosensors Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global biosensors market size reached US\$ 26.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 43.0 Billion by 2028, exhibiting a growth rate (CAGR) of 8.4% during 2022-2028.

A biosensor, or biological sensor, is an analytical device used to detect changes in various biological processes and convert them into an electrical signal. It is used for monitoring biological elements, such as enzymes, nucleic acids, tissues, cell receptors, microorganisms and antibodies. Some of the commonly used biosensors include mass, optical, electrochemical, magnetic, nanomechanical, thermometric, acoustic and immunosensors. They consist of a responsive sensor, transducer, microcontroller, signal conditioning circuit and display unit and are embedded in resonant mirrors, chemical canaries, optodes, bio-computers, biochips and glucometers. Biosensors are extensively used for point-of-care (POC) diagnostics, research, environmental monitoring and biodefense applications.

Biosensors Market Trends:

Significant growth in the medical industry across the globe is one of the key factors creating a positive outlook for the market. Moreover, widespread adoption of wearable biosensors for continuous monitoring of vital signs of patients, infants, children, athletes and fitness enthusiasts is providing a thrust to the market growth. These biosensors facilitate remote monitoring of the individuals and can transmit biological data to the physician for real-time alerts. They are also incorporated in smart textiles for convenient tracking of vital signs. In line with this, as the coronavirus disease (COVID-19) continues to spread, there has been a substantial increase in the demand for biosensors in the healthcare centers for continuous monitoring of the patients. Additionally, various technological advancements, such as the integration of connected devices with the Internet of Things (IoT) and the development of innovative nanotechnology-based biosensors, are acting as other growth-inducing factors. These biosensors are used in

nanotubes, nanowires, nanorods and nanoparticles for biomolecular detection. Other factors, including significant improvements in the healthcare infrastructure, along with extensive research and development (R&D) activities, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global biosensors market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product, technology, application and end use.

Breakup by Product:

Wearable Biosensors

Non-Wearable Biosensors

Breakup by Technology:

Electrochemical Biosensors

Optical Biosensors

Piezoelectric Biosensors

Thermal Biosensors

Nanomechanical Biosensors

Others

Breakup by Application:

Blood Glucose Testing

Cholesterol Testing

Blood Gas Analysis

Pregnancy Testing

Drug Discovery

Infectious Disease Testing

Others

Breakup by End Use:

Point of Care Testing

Home Healthcare Diagnostics

Research Laboratories

Security and Biodefense

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Abbott Laboratories, AgaMatrix Inc. (WaveForm Technologies Inc), DuPont de Nemours Inc., F. Hoffmann-La Roche AG, General Electric Company, LifeScan Inc. (Platinum Equity LLC), Medtronic PLC, Nova Biomedical Corporation, PHC Holdings Corporation, Siemens AG and Thermo Fisher Scientific Inc.

Key Questions Answered in This Report

1. What was the size of the global biosensors market in 2022?
2. What is the expected growth rate of the global biosensors market during 2023-2028?
3. What are the key factors driving the global biosensors market?
4. What has been the impact of COVID-19 on the global biosensors market?
5. What is the breakup of the global biosensors market based on the product?
6. What is the breakup of the global biosensors market based on the technology?
7. What is the breakup of the global biosensors market based on the application?
8. What is the breakup of the global biosensors market based on the end use?
9. What are the key regions in the global biosensors market?
10. Who are the key players/companies in the global biosensors market?

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