

Global Biodetectors and Accessories Market to Projected to Expand at 12.5% CAGR to \$53.6 Billion by 2034

Increased agricultural and urban demands for pest management solutions contribute to growing market size and innovation in this market, says Fact.MR



Biodetectors and Accessories Market

MD, UNITED STATES, January 21, 2025

/EINPresswire.com/ -- The global

[biodetectors and accessories market](#) is projected to value at US\$ 16.5 billion in 2024 and expand at a CAGR of 12.5% to end up at US\$ 53.6 billion by 2034.

The biodetectors and their accessories market is experiencing rapid growth due to growing awareness on health and environmental safety. These are applied widely in healthcare systems for rapid pathogen detection, in agriculture for managing pests, and in environmental monitoring to ensure safety from biological threats. Key trends include the introduction of advanced technologies like artificial intelligence and machine learning to improve the accuracy and effectiveness of biodetection. The growing interest for sustainability requires companies to seek environmental-friendly solutions that do not hurt the environment.

The industries would then look to rely on biodetection methods which are effective and efficient in detection. This increases the need for improvement and applicability in various industries. This dynamic landscape underscores the crucial role of biodetection technologies in promoting public health and environmental protection. These technologies play an important role in certain applications such as quick pathogen detection in healthcare, pest control in agriculture, and bio-threat monitoring. Key trends are that new-age technologies, for example, artificial intelligence and machine learning, are incorporated to enhance the accurateness and efficiency of processes in biodetection.

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Key Takeaways from Market Study

Global Biodetectors and Accessories market will grow at a CAGR of 12.5% reaching US\$ 53.6

billion by the end of 2034.

North America will expand at a CAGR of 12.7% from 2024 to 2034, capturing 26.9% of the market share in 2024 and offering an absolute opportunity of US\$ 10.3 billion.

East Asia will account for 38.4% of market share in 2024, generating an absolute dollar opportunity of US\$ 15.2 billion between 2024 and 2034.

Between 2024 and 2034, the Biodetection Instruments classification is expected to produce an absolute dollar opportunity US\$ 14.5 billion.

With a 8% market share, the Clinical application is estimated to be worth US\$ 17.1 billion in 2024.

"An emerging trend within the Biodetectors and Accessories market is the increasing focus on integrating smart technologies, such as IoT and AI, to enhance real-time monitoring and data analysis for pest management solutions.", says a Fact.MR analyst.

Market Development

Key companies like Thermo Fisher Scientific Inc., Roche Diagnostics, Abbott Laboratories, Becton, Dickinson and Company (BD), Siemens Healthineers, PerkinElmer, Inc., Bio-Rad Laboratories, Inc., Agilent Technologies, QIAGEN N.V., and others are propelling the market growth.

These important companies used a variety of primary strategies, such as product releases, mergers and acquisitions, expansions, and deals, to strengthen their positions in the electronic chemicals and materials market. Major attention was paid to the deals and expansions.

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More Valuable Insights on Offer

Fact.MR, in its new offering, presents an unbiased analysis of the global Biodetectors and Accessories market, presenting historical data for 2019 to 2023 and forecast statistics for 2024 to 2034.

The study reveals essential insights based on Product Type (Biodetection Instruments, Reagents & Media, Accessories & Consumables), By Application (Clinical, Food & Environment, Defense), End-use and across major seven regions of the world.

More Valuable Insights on Offer

Fact.MR, in its new offering, presents an unbiased analysis of the global Underground Mining Drones market, presenting historical data for 2019 to 2023 and forecast statistics for 2024 to 2034.

The study reveals essential insights on the basis of Drone Type (Fixed-Wing Drones, Rotary-Wing Drones (Multicopter), and Hybrid Drones), Application (Surveying and Mapping, Inspection and Monitoring, Material Transport, Search and Rescue, Environmental Monitoring and Autonomous Load Hauling Systems), Technology (Navigation and Control Systems, Sensors and Payloads and Communication Systems), End use industry (Metal Mining, Coal Mining, Non-Metallic Mineral Mining) across major regions of the world (North America, Latin America, Western Europe, Eastern Europe, East Asia, South Asia and Pacific, Middle East & Africa).

Competitive Landscape

On February 2023, Bio-Rad introduced its "Droplet Digital PCR" technology for precise pathogen detection. This technology allows for highly sensitive quantification of nucleic acids, improving diagnostic capabilities in infectious disease testing.

On May 2023, Bertin Technologies introduced a new "Biosensor" for environmental monitoring. This innovation enhances the detection of biological threats in the environment, supporting safety measures in public health and environmental protection.

On January 2022, QIAGEN announced the launch of its "QIAstat-Dx" syndromic testing platform. This platform enables simultaneous detection of multiple pathogens, streamlining diagnostics and improving patient management in infectious disease cases.

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