Microbial Identification Market Projected to Reach USD 9.77 Billion by 2032, with a CAGR of 11.5% - SNS Insider

Technological Innovations and Increased Global Investments Drive Growth Amid Rising Infectious Disease Concerns

AUSTIN, TX, UNITED STATES, December 3, 2024 /EINPresswire.com/ -- According to Research by SNS Insider, The global [microbial identification market](#) size was valued at USD 3.6 billion in 2023 and is projected to reach USD 9.77 billion by 2032, expanding at a robust compound annual growth rate (CAGR) of 11.5% over the forecast period from 2024 to 2032.

MICROBIAL IDENTIFICATION MARKET

Market Revenue in 2023 **$ 3.6 Bn**

Market Revenue by 2032 **$ 9.77 Bn**

11.5% CAGR 2024-2032

KEY PLAYERS STATISTICS · DANAHER · MERCK · ThermoFisher SCIENTIFIC

Microbial Identification Market

The microbial identification market is witnessing tremendous growth due to increasing government initiatives and funding for advanced diagnostic solutions. The World Health Organization has indicated an alarming increase in antimicrobial resistance across the globe and stressed the necessity of detecting microbes accurately. Governments across the world are making significant investments in high-quality microbial identification technologies in a bid to combat this challenge.

According to the CDC, the U.S. raised funding for antimicrobial resistance programs by about 15% in 2023. Similarly, the European Centre for Disease Prevention and Control observed an increase of 12% in public health expenditure on diagnostic tools in Europe during the past year. These innovations in improving infectious disease surveillance and control will, therefore create demand for state-of-the-art microbial detection systems. Investments such as this by governments and private parties that focus on healthcare spending and infection control will see the market for microbial identification grow by leaps and bounds in the years ahead.

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Key Microbial Identification Market Players:
Charles River
Becton Dickinson and Company
Wickham Micro Limited
Shimadzu Corporation
Thermo Fisher Scientific Inc.
Bruker Corporation
Danaher Corporation
bioMérieux SA
Qiagen N.V.
Eurofins Scientific SE
VWR International LLC. (Avantor Inc.)
Merck KGaA
Biolog Inc

Market Analysis

The growing incidence of infectious diseases makes timely and accurate microbial identification crucial for effective treatment and prevention. Technological advancements, especially in next-generation sequencing (NGS) and molecular diagnostics, have transformed microbial detection by greatly improving speed, precision, and efficiency.

NGS allows for the analysis of enormous DNA material to identify microbe identification very accurately. Latest innovations in real-time polymerase chain reaction technology and other diagnostic equipment have significantly streamlined the timelines of days to hours now. By 2024, these technologies would have increased diagnostics efficiency by up to 30%, thereby eradicating acute problems in the healthcare system which has positively impacted demand from the market.

Increased investments in R&D directed towards developing new diagnostic techniques and methods have also contributed greatly to the growth of this market. These new technologies should fill the increased demand for fast, reliable, and accurate microbial identification.

Segment Analysis

By Technology
The Mass Spectrometry (MS) segment dominates the market with a significant share of microbial identification. It provides excellent accuracy, and speed, and can detect a large variety of microbial species. This technology, therefore, has found indispensable utility in both clinical diagnostics and research at the molecular level. Recent advances in MS technology have further enhanced the precision and efficiency of the tool, thus leading it in the market.

By End-Use

Hospitals and diagnostic laboratories segment dominated the market with market share above 37% in 2023. Their critical role in patient care explains why there is such a huge demand for microbial testing in hospitals and diagnostic laboratories. Hospitals process a high volume of cases, and their diagnosis calls for robust solutions for the identification of microbes.

Meanwhile, the pharmaceutical and biotechnology companies' segment is projected to exhibit the fastest growth rate during the forecast period. This is because the two industries play the most significant role in drug development and vaccine production, for which exact microbial testing becomes a necessary component to guarantee product safety and regulatory compliance.

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Key Segments:

By Product & Services
Instruments
Mass Spectrometers
PCR Systems
Microarrays
Others
Consumables
Reagents & Kits
Plates & Media
Software & Services
Identification Services
Culture Collection Services
Assay Validation Services

By Technology
Mass Spectrometry
PCR
Microarrays
Next Generation Sequencing
Others

By Method
Phenotypic Methods
Genotypic Methods
Proteotypic Methods

By Application

Clinical Diagnostics
Pharmaceuticals
Food & Beverage Testing
Environmental Application
Others

By End-use
Pharmaceutical and Biotechnology Companies
Hospitals and Diagnostic Laboratories
Food Testing Laboratories
Others

Regional Insights

The region that dominated the global microbial identification market in 2023 is North America, with more than 39% of market share. The region has better health infrastructure heavy investment in R&D and also high adoption of new technology, which makes it top-notch. Government agencies, like the CDC, also play an important role in supporting this market.

Asia Pacific is forecasted to exhibit the fastest growth from 2024-2032 as the spread of infectious diseases continuously increases and more healthcare investment is seen across the geographies. China focuses on enhancing its health sector combined with India's increased investment in the private sector.

Recent Market Developments

September 2024: Thermo Fisher Scientific launched a high-throughput mass spectrometry platform for microbial identification. This cutting-edge system enhances detection speed and accuracy, making it increasingly suitable for clinical and research applications amid rising demand for advanced diagnostics.

September 2023: Wickham Micro expanded its capacity for MALDI-ToF testing, enabling faster microbial identification in medical devices. This advancement aims to streamline diagnostic processes, improving efficiency and reliability in healthcare and research settings.

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