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Food Testing Kits Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Target Tested (Allergens, Pathogens, GMO's, Meat Species, Mycotoxins and Others), By Technology (PCR-Based, Immunoassay-Based and Enzyme Substrate-Based and Others), By Sample (Meat, Poultry & Seafood Products, Dairy Products, Fruits & Vegetables, Cereals, Grains & Pulses, Nuts, Seeds & Spices, Packaged Food) By Region & Competition, 2021-2031F

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Abstracts

The Global Food Testing Kits Market is projected to expand from USD 3.27 Billion in 2025 to USD 5.34 Billion by 2031, achieving a compound annual growth rate of 8.52%. These testing kits function as essential diagnostic tools and consumables utilized to identify pathogens, allergens, chemical residues, and other contaminants, thereby ensuring food safety and regulatory adherence. Market growth is largely underpinned by the globalization of food supply networks, which requires strict cross-border verification and compliance with international safety standards. Furthermore, the rising frequency of foodborne illness outbreaks is pushing manufacturers to implement frequent testing to safeguard their brand reputation and satisfy consumer demands. This need for transparency is highlighted by the International Food Information Council, which noted in 2025 that consumer confidence in the U.S. food supply fell to 55 percent, reinforcing the urgent industry requirement for robust safety measures.

Despite these positive indicators, the market confronts substantial obstacles due to the

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significant capital investment needed for sophisticated testing technologies. Small and medium-sized enterprises often find it difficult to bear the costs of expensive instrumentation and the specialized technical training required for accurate analysis. These financial constraints restrict the uptake of high-precision testing solutions among smaller producers and hinder market growth in cost-sensitive regions, where meeting basic compliance standards often takes precedence over acquiring advanced detection capabilities.

Market Driver

The enforcement of stringent international food safety regulations serves as a major market catalyst, necessitating the adoption of comprehensive diagnostic protocols by producers. Regulatory authorities and governments are strengthening oversight mechanisms to minimize public health risks, resulting in a surge of mandatory compliance testing. This regulatory intensity is reflected in the growing volume of product recalls, which demands improved surveillance and detection capabilities throughout the production process. According to Sedgwick's February 2024 'U.S. product recall index,' the number of food recalls in the United States rose by 19.6 percent in 2023, reaching a five-year peak. Such enforcement actions compel manufacturers to incorporate advanced testing kits to prevent costly recalls and adhere to evolving legislative standards.

Concurrently, the increasing global incidence of foodborne illnesses and outbreaks is fueling the demand for rapid and precise detection methodologies. With pathogens like Listeria and Salmonella presenting serious health risks, the industry is shifting toward preventive testing strategies to mitigate contamination threats before products enter the retail market. High-profile outbreak events emphasize the necessity for continuous monitoring systems; for example, the Centers for Disease Control and Prevention reported in August 2024 that a severe Listeria outbreak linked to deli meats resulted in 57 hospitalizations across multiple states. To combat such persistent threats, significant capital is being directed toward strengthening food safety infrastructure. In 2024, the United States Department of Agriculture announced 110 million dollars in grants to upgrade meat and poultry processing facilities, directly supporting the enhancement of inspection and testing frameworks.

Market Challenge

The Global Food Testing Kits Market is significantly constrained by the substantial capital expenditure required for advanced diagnostic equipment and continuous

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operational costs. This financial burden is particularly acute for small and medium-sized enterprises, which comprise a large portion of the global food supply chain. Unlike major corporations that possess dedicated budgets for quality assurance, these smaller entities often lack the liquidity to purchase high-precision instrumentation or fund the specialized training required for staff to operate complex systems. Consequently, this disparity results in a fragmented market where adoption rates are noticeably lower in sectors dominated by smaller players.

This economic hurdle directly impedes the broader penetration of modern testing solutions, forcing many businesses to rely on less accurate legacy methods. The inability of smaller manufacturers to upgrade their safety protocols stifles overall market expansion and limits the industry's ability to standardize safety practices globally. According to the Institute of Food Technologists in 2024, nearly 70 percent of food industry professionals identified cost as the primary barrier to adopting new technology solutions. This statistic highlights how financial limitations effectively cap market potential, particularly in price-sensitive regions where business survival often takes precedence over investing in superior detection capabilities.

Market Trends

The integration of Artificial Intelligence for predictive quality monitoring is reshaping the market by transitioning safety protocols from reactive detection to proactive risk mitigation. Manufacturers are increasingly utilizing AI algorithms to analyze vast datasets from production lines, enabling the identification of potential contamination anomalies before they escalate into safety hazards. This digital transformation allows for real-time surveillance of critical control points, significantly reducing the reliance on manual sampling and minimizing the lag time between production and safety verification. According to Food Industry Executive in July 2025, within 'The AI Revolution Transforming Food Manufacturing' article, 50 percent of food industry companies are already planning artificial intelligence investments for 2025, reflecting a major sector-wide pivot toward automated, data-driven safety strategies.

Simultaneously, the widespread adoption of Rapid Analytical Food Testing technologies is accelerating as producers seek to optimize operational efficiency and reduce inventory holding costs. This trend is characterized by a shift away from traditional, time-consuming culture methods toward advanced molecular diagnostics and portable devices that deliver results in hours rather than days. These rapid solutions enable on-site testing and immediate decision-making, allowing facilities to release products faster while maintaining rigorous hygiene standards. According to BioM?rieux's April 2025

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'First-Quarter 2025 Business Review' report, sales in the Industrial Applications segment, which encompasses food safety diagnostics, grew by 9 percent, driven by strong demand for specialized reagents and detection platforms.

Key Market Players

Thermo Fisher Scientific, Inc.

Agilent Technologies, Inc.

Bio-Rad Laboratories, Inc.

bioMerieux SA

Neogen Corporation

Merck KGaA

PerkinElmer, Inc.

QIAGEN N.V.

Eurofins Scientific SE

3M Company

Report Scope

In this report, the Global Food Testing Kits Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Food Testing Kits Market, By Target Tested

Allergens

Pathogens

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- Mexico

Europe

- France
- United Kingdom
- Italy
- Germany
- Spain

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea

South America

- Brazil
- Argentina
- Colombia

Middle East & Africa

- South Africa

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Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Food Testing Kits Market.

Available Customizations:

Global Food Testing Kits Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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