

# **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**

<https://marketpublishers.com/r/F2EA21624511EN.html>

Date: January 2026

Pages: 180

Price: US\$ 4,500.00 (Single User License)

ID: F2EA21624511EN

## **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

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

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 BioMérieux's April 2025

'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

GMO's

Meat Species

Mycotoxins and Others

Food Testing Kits Market, By Technology

PCR-Based

Immunoassay-Based and Enzyme Substrate-Based and Others

Food Testing Kits Market, By Sample

Meat

Poultry & Seafood Products

Dairy Products

Fruits & Vegetables

Cereals

Grains & Pulses

Nuts

Seeds & Spices

Packaged Food

Food Testing Kits Market, By Region

North America

United States

Canada

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

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).

## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

### **4. VOICE OF CUSTOMER**

### **5. GLOBAL FOOD TESTING KITS MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Target Tested (Allergens, Pathogens, GMO?s, Meat Species, Mycotoxins and Others)
  - 5.2.2. By Technology (PCR-Based, Immunoassay-Based and Enzyme Substrate-Based and Others)

5.2.3. By Sample (Meat, Poultry & Seafood Products, Dairy Products, Fruits & Vegetables, Cereals, Grains & Pulses, Nuts, Seeds & Spices, Packaged Food)

5.2.4. By Region

5.2.5. By Company (2025)

5.3. Market Map

## **6. NORTH AMERICA FOOD TESTING KITS MARKET OUTLOOK**

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Target Tested

6.2.2. By Technology

6.2.3. By Sample

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Food Testing Kits Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Target Tested

6.3.1.2.2. By Technology

6.3.1.2.3. By Sample

6.3.2. Canada Food Testing Kits Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Target Tested

6.3.2.2.2. By Technology

6.3.2.2.3. By Sample

6.3.3. Mexico Food Testing Kits Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Target Tested

6.3.3.2.2. By Technology

6.3.3.2.3. By Sample

## **7. EUROPE FOOD TESTING KITS MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Target Tested
  - 7.2.2. By Technology
  - 7.2.3. By Sample
  - 7.2.4. By Country
- 7.3. Europe: Country Analysis
  - 7.3.1. Germany Food Testing Kits Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1. By Value
    - 7.3.1.2. Market Share & Forecast
      - 7.3.1.2.1. By Target Tested
      - 7.3.1.2.2. By Technology
      - 7.3.1.2.3. By Sample
  - 7.3.2. France Food Testing Kits Market Outlook
    - 7.3.2.1. Market Size & Forecast
      - 7.3.2.1.1. By Value
    - 7.3.2.2. Market Share & Forecast
      - 7.3.2.2.1. By Target Tested
      - 7.3.2.2.2. By Technology
      - 7.3.2.2.3. By Sample
  - 7.3.3. United Kingdom Food Testing Kits Market Outlook
    - 7.3.3.1. Market Size & Forecast
      - 7.3.3.1.1. By Value
    - 7.3.3.2. Market Share & Forecast
      - 7.3.3.2.1. By Target Tested
      - 7.3.3.2.2. By Technology
      - 7.3.3.2.3. By Sample
  - 7.3.4. Italy Food Testing Kits Market Outlook
    - 7.3.4.1. Market Size & Forecast
      - 7.3.4.1.1. By Value
    - 7.3.4.2. Market Share & Forecast
      - 7.3.4.2.1. By Target Tested
      - 7.3.4.2.2. By Technology
      - 7.3.4.2.3. By Sample
  - 7.3.5. Spain Food Testing Kits Market Outlook
    - 7.3.5.1. Market Size & Forecast

- 7.3.5.1.1. By Value
- 7.3.5.2. Market Share & Forecast
  - 7.3.5.2.1. By Target Tested
  - 7.3.5.2.2. By Technology
  - 7.3.5.2.3. By Sample

## **8. ASIA PACIFIC FOOD TESTING KITS MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Target Tested
  - 8.2.2. By Technology
  - 8.2.3. By Sample
  - 8.2.4. By Country
- 8.3. Asia Pacific: Country Analysis
  - 8.3.1. China Food Testing Kits Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Target Tested
      - 8.3.1.2.2. By Technology
      - 8.3.1.2.3. By Sample
  - 8.3.2. India Food Testing Kits Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Target Tested
      - 8.3.2.2.2. By Technology
      - 8.3.2.2.3. By Sample
  - 8.3.3. Japan Food Testing Kits Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value
    - 8.3.3.2. Market Share & Forecast
      - 8.3.3.2.1. By Target Tested
      - 8.3.3.2.2. By Technology
      - 8.3.3.2.3. By Sample
  - 8.3.4. South Korea Food Testing Kits Market Outlook
    - 8.3.4.1. Market Size & Forecast

- 8.3.4.1.1. By Value
- 8.3.4.2. Market Share & Forecast
  - 8.3.4.2.1. By Target Tested
  - 8.3.4.2.2. By Technology
  - 8.3.4.2.3. By Sample
- 8.3.5. Australia Food Testing Kits Market Outlook
  - 8.3.5.1. Market Size & Forecast
    - 8.3.5.1.1. By Value
  - 8.3.5.2. Market Share & Forecast
    - 8.3.5.2.1. By Target Tested
    - 8.3.5.2.2. By Technology
    - 8.3.5.2.3. By Sample

## **9. MIDDLE EAST & AFRICA FOOD TESTING KITS MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Target Tested
  - 9.2.2. By Technology
  - 9.2.3. By Sample
  - 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
  - 9.3.1. Saudi Arabia Food Testing Kits Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Target Tested
      - 9.3.1.2.2. By Technology
      - 9.3.1.2.3. By Sample
  - 9.3.2. UAE Food Testing Kits Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Target Tested
      - 9.3.2.2.2. By Technology
      - 9.3.2.2.3. By Sample
  - 9.3.3. South Africa Food Testing Kits Market Outlook
    - 9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Target Tested

9.3.3.2.2. By Technology

9.3.3.2.3. By Sample

## **10. SOUTH AMERICA FOOD TESTING KITS MARKET OUTLOOK**

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Target Tested

10.2.2. By Technology

10.2.3. By Sample

10.2.4. By Country

10.3. South America: Country Analysis

10.3.1. Brazil Food Testing Kits Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Target Tested

10.3.1.2.2. By Technology

10.3.1.2.3. By Sample

10.3.2. Colombia Food Testing Kits Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Target Tested

10.3.2.2.2. By Technology

10.3.2.2.3. By Sample

10.3.3. Argentina Food Testing Kits Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Target Tested

10.3.3.2.2. By Technology

10.3.3.2.3. By Sample

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS & DEVELOPMENTS**

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

## **13. GLOBAL FOOD TESTING KITS MARKET: SWOT ANALYSIS**

## **14. PORTER'S FIVE FORCES ANALYSIS**

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

## **15. COMPETITIVE LANDSCAPE**

- 15.1. Thermo Fisher Scientific, Inc.
  - 15.1.1. Business Overview
  - 15.1.2. Products & Services
  - 15.1.3. Recent Developments
  - 15.1.4. Key Personnel
  - 15.1.5. SWOT Analysis
- 15.2. Agilent Technologies, Inc.
- 15.3. Bio-Rad Laboratories, Inc.
- 15.4. bioMerieux SA
- 15.5. Neogen Corporation
- 15.6. Merck KGaA
- 15.7. PerkinElmer, Inc.
- 15.8. QIAGEN N.V.
- 15.9. Eurofins Scientific SE
- 15.10. 3M Company

## **16. STRATEGIC RECOMMENDATIONS**

## 17. ABOUT US & DISCLAIMER

## I would like to order

Product name: 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

Product link: <https://marketpublishers.com/r/F2EA21624511EN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/F2EA21624511EN.html>