

Global Food Pathogen Testing Market Size Study & Forecast, by Type (E.coli, Salmonella, Campylobacter, Listeria) by Technology (Traditional and Rapid) and Food Type (Meat & Poultry, Dairy, Processed Food, Fruits & Vegetables, Cereals & Grains) and Regional Forecasts 2025-2035

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Abstracts

Market Definition and Overview

The Global Food Pathogen Testing Market is valued at approximately USD 16.37 billion in 2024 and is projected to expand at a robust CAGR of 8.40% over the forecast period 2025-2035. Food pathogen testing encompasses analytical methods and technologies employed to detect, identify, and quantify pathogenic microorganisms in food products, ensuring safety and compliance with regulatory standards. These testing methodologies are critical for minimizing foodborne illnesses, safeguarding public health, and maintaining consumer confidence in food supply chains. The growth of this market is largely fueled by increasing incidences of foodborne outbreaks, stringent government regulations, and rising consumer awareness about food safety. In addition, innovations in rapid testing technologies, alongside expanding global food trade, are creating substantial opportunities for market expansion.

The increasing complexity of food supply chains and globalization of food trade has heightened the need for advanced pathogen testing. According to WHO, foodborne illnesses affect millions annually, emphasizing the critical role of pathogen detection in preventing public health crises. Furthermore, advancements in molecular testing, immunoassays, and culture-independent diagnostic techniques are transforming traditional approaches, enabling faster and more accurate detection of E.coli,

Salmonella, Campylobacter, and Listeria. Nevertheless, high costs associated with cutting-edge technologies and the need for skilled personnel may pose challenges during the forecast period 2025-2035.

The detailed segments and sub-segments included in the report are:

By Type:

E.coli

Salmonella

Campylobacter

Listeria

By Technology:

Traditional

Rapid

By Food Type:

Meat & Poultry

Dairy

Processed Food

Fruits & Vegetables

Cereals & Grains

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

RoE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Salmonella Testing Expected to Dominate the Market

Salmonella testing is anticipated to dominate the market due to the high prevalence of outbreaks linked to contaminated meat, poultry, and dairy products. This segment is critical for both regulatory compliance and consumer safety, as timely detection of Salmonella can prevent large-scale foodborne disease incidents. While Salmonella leads in adoption, testing for E.coli and Listeria is gaining traction owing to increasing awareness about their health implications and regulatory mandates in processed foods and fresh produce.

Rapid Testing Technology Leads in Revenue Contribution

Among technologies, rapid testing methods currently generate the largest revenue share due to their ability to deliver faster results, higher sensitivity, and reduced labor requirements compared to traditional culture-based methods. Traditional testing methods continue to hold significance for their reliability and regulatory acceptance, particularly in large-scale production and export operations. The market demonstrates a dual trend where rapid testing is the fastest-growing, while traditional methods sustain market coverage due to widespread adoption.

North America dominated the market in 2025, driven by well-established food safety regulations, advanced laboratory infrastructure, and increasing consumer demand for safe food products. Europe closely follows, benefitting from stringent EU food safety

policies and well-established monitoring frameworks. Asia Pacific is projected to be the fastest-growing region over the forecast period, fueled by population growth, industrialization, increasing exports of food products, and governmental initiatives to strengthen food safety monitoring. Latin America and the Middle East & Africa are gradually expanding their market presence due to increasing regulatory focus and rising awareness of foodborne illness prevention.

Major market players included in this report are:

3M Company

Merck KGaA

Thermo Fisher Scientific, Inc.

Bio-Rad Laboratories, Inc.

Neogen Corporation

Eurofins Scientific

DSM Food Specialties

R-Biopharm AG

Lonza Group AG

Qiagen N.V.

Charles River Laboratories International, Inc.

bioMérieux SA

SGS SA

Intertek Group plc

Microbiologics, Inc.

Global Food Pathogen Testing Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained above.

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

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