

# Enteric Disease Testing Market Report: Trends, Forecast and Competitive Analysis to 2030

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## Abstracts

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### Enteric Disease Testing Trends and Forecast

The future of the global enteric disease testing market looks promising with opportunities in the water and food markets. The global enteric disease testing market is expected to reach an estimated \$5.1 billion by 2030 with a CAGR of 3.5% from 2024 to 2030. The major drivers for this market are rising number of innovations and technological advancements in enteric disease testing devices, increasing focus on sample utilization, and growing advancement for quicker, proficient, and cheaper computing hardware tied with better network connectivity.

Lucintel forecasts that traditional testing will remain the largest segment over the forecast period due to growing demand for processed and convenience food, as well as, increasing incidences of enteric diseases.

North America will remain the largest segment over the forecast period due to the rising incidences of enteric diseases and increasing regulatory efforts for spreading awareness regarding the availability of enteric diseases in this region.

### Emerging Trends in the Enteric Disease Testing Market

Emerging trends in the enteric disease testing market are driven by advancements in technology, changing healthcare needs, and increased focus on food safety. These trends are shaping the market dynamics and influencing the development of new testing methodologies and approaches.

**Integration of Molecular Diagnostics:** Molecular diagnostics offer high sensitivity and specificity for detecting pathogens, enabling quicker and more accurate results. This trend is improving the efficiency of enteric disease testing by reducing turnaround times and enhancing detection capabilities. As these technologies become more affordable, their adoption is expected to increase, leading to more widespread use in both clinical and field settings.

**Development of Rapid Testing Solutions:** Rapid tests give quick results for timely diagnoses that are important in prompt treatment. This tendency is filling the gap of swiftly responding to testing requirements under emergency conditions as well as at a distance. The presence of easily accessible rapid tests helps improve disease control and lighten health systems' load through instant response during outbreaks.

**Use of Artificial Intelligence and Machine Learning:** Big data analysis by AI and machine learning enhances diagnostic precision by recognizing patterns which would otherwise not be seen using traditional means. Testing processes are made more efficient while predicting outbreaks and designing personalized treatment approaches. More accurate and actionable insights are expected to be provided through the use of AI, thus revolutionizing disease surveillance and management.

**Emphasis on Food Safety and Prevention:** This is about integrating testing solutions into food production and distribution processes for the purpose of preventing contamination. An increased focus on food safety aids in early identification and containment of enteric pathogens before they reach consumers. As a result, preventive approaches have given rise to new testing technologies and reduced the rate at which people suffer from foodborne diseases thereby improving public health.

**Expansion of Testing Infrastructure in Emerging Markets:** Expanding the testing infrastructure in emerging countries addresses gaps in access to healthcare and aids disease surveillance. The investments made towards diagnostic tools and testing facilities are helping detect, manage, and control enteric diseases in areas with high disease burden. This direction is enhancing global health fairness as well as enabling better outbreak management among underprivileged communities.

These emerging trends molecular diagnostics, rapid tests, AI incorporated into food safety protocols, advancing infrastructures are transforming the market for enteric disease tests. They are propelling technological advancements in detection techniques, improving test accuracy rates at all levels of healthcare delivery systems globally as well as refining worldwide response strategies against ailment outbreaks.

## Recent Developments in the Enteric Disease Testing Market

Recent developments in the enteric disease testing market have been driven by technological advancements, increased focus on food safety and changing healthcare needs. Improved diagnostic accuracy, testing speed, and overall disease management are a result of these developments.

**Introduction of Advanced Molecular Diagnostic Tools:** These tools show high degree of sensitivity and specificity to detect enteric pathogens hence reducing time taken to diagnose them. They allow better tracking of outbreaks as well as personalized treatments plans. Through such technologies adoption, efficiency and reliability will be boosted thus improving both clinical settings and also public health sectors.

**Growth of Rapid Testing Platforms:** The immediacy of rapid testing platforms is vital in getting conclusive results, which are necessary for immediate diagnosis and treatment. Such an advancement enhances quick response to outbreaks and effective management of cases. Rapid tests availability has improved access to testing particularly in remote and underserved areas.

**Expansion of Testing Capabilities in Emerging Markets:** Expansion of Testing Capabilities in Emerging Markets addresses gaps in disease surveillance and healthcare access. This development is improving the detection and management of enteric diseases in regions with high disease burden. It also supports global health efforts by reducing the incidence of outbreaks.

**Integration of Digital Health Technologies:** Diagnostic accuracy can be enhanced through digital health technologies while at the same time facilitating real-time monitoring on disease outbreaks. AI and data analytics have facilitated decision making thereby predicting early outbreak signs. With this integration, the diagnostic process has been made simpler thereby enhancing overall effectiveness for managing diseases

**Increased Emphasis on Food Safety Measures:** Improved food safety measures help prevent contamination and reduce the risk of foodborne illnesses. These are implemented in food production and distribution to ensure safe products. This advancement has resulted in better public health outcomes through reducing enteric diseases associated with food.

Latest developments around enteric disease testing market include; improving diagnostic capabilities, enhanced testing infrastructure, and integration of advanced technologies. They enhance disease control, reaction to outbreaks as well as enhance overall public wellness.

### Strategic Growth Opportunities for Enteric Disease Testing Market

Advancements in technology and growing emphasis on public health have created strategic growth opportunities within different application domains in the enteric disease testing market. Identifying these opportunities allows companies to address key areas for growth and innovation.

**Expansion of Point-of-Care Testing:** Tests at the point of care, can help in quick diagnostics and make treatment possible. As a result, companies can develop and sell testing kits that are easy to use in both clinical and field settings. More importantly, expanding point-of-care testing may improve access to diagnostic services especially in remote areas with limited resources.

**Development of Multiplex Assays:** The use of multiplex assays enables the simultaneous detection of many enteric pathogens in one test which increases efficiency and decreases the time required to diagnose infection. This technological advancement provides for an all-inclusive monitoring system for disease prevalence while helping to identify co-infections. There is a very big market for companies that deal with multiplex assays because they offer a more versatile as well as efficient way of doing tests than their competitor products.

**Integration of AI and Machine Learning:** AI together with machine learning can enhance accuracy in diagnoses through analyzing large data sets as well as predicting outbreaks. Consequently, this integration allows better refined as well as timely detections thereby improving overall effectiveness of examinations by giving early warning signs on diseases that may affect humans or animals alike. Such firms investing on these technologies can be leaders regarding

modernization even when it comes to surveillance and management applications related to different types infectious diseases.

**Focus on Food Safety Testing:** Better food safety testing prevents contamination and decreases the danger of food poisoning. The development of improved solutions for foodborne pathogen isolation can help increase public health benefits and address the increasing concerns of the masses. This provides an incredible chance for market players to invest in ensuring that people are not poisoning themselves with whatever they eat.

**Expansion into Emerging Markets:** A number of medical needs that are growing as well as infrastructure being developed that makes emerging markets good places for expansion. By going into these regions, companies can reach out to untapped markets where they contribute towards better disease management and surveillance. Such a move establishes global health initiatives and extends market coverage.

Strategic growth opportunities in the enteric disease testing market include expanding point-of-care testing, developing multiplex assays, integrating AI, focusing on food safety, and entering emerging markets. These opportunities offer avenues for innovation and market expansion, addressing critical healthcare needs and enhancing disease management.

## Enteric Disease Testing Market Driver and Challenges

The enteric disorder examination market is influenced by a number of drivers and challenges, such as technological advancement, economic situation, and regulatory conditions. Analyzing these factors helps stakeholders to understand the dynamic market and make informed decisions.

The factors responsible for driving the enteric disease testing market include:

1. **Technological Advancements:** Technological improvements increase the accuracy, speed and efficiency of enteric disease testing. Innovations like PCR, NGS and multiplex assays improve detection abilities and shorten turnaround times. These advances help expand the market for accurate diagnostics that are timely due to increased demand.

2. **Growing Food Safety Concerns:** The increasing concerns pertaining to food safety are driving the demand for advanced testing solutions. This driver prompts new technologies for testing purposes while tightening regulations on food safety. In response to this trend, businesses invest in product lines that detect contaminated foods thus mitigating any danger of outbreaks.

3. **Rising Prevalence of Enteric Diseases:** A rise in the prevalence of enteric diseases increases the demand for effective diagnostic tests. This driver stimulates market growth by encouraging emergence of novel diagnostic platforms and expands testing infrastructure. As the burden grows, there is need for creative testing mechanisms and increased investment in health care.

4. **Increased Healthcare Infrastructure Investment:** Investments in healthcare infrastructure particularly in emerging markets, improve disease surveillance and test capacity building. This driver increases access to diagnostics tools and improves general management of diseases thereby supporting market growth. Enhanced infrastructure allows for the installation of sophisticated testing technology systems leading to better health outcomes.

Challenges in the enteric disease testing market are:

1. **Regulatory and Compliance Issues:** The development and approval of diagnostic tests could be complicated for manufacturers by the regulatory challenges that raise costs. Regulatory requirements must be met and changes in standards adapted to. Achieving market entry and ensuring product quality both require compliance, but it also acts as a serious barrier.

2. **Supply Chain Disruptions:** Manufacturing delays and higher costs of diagnostic testing can result from supply chain disruptions. Companies need to come up with strategies to manage supply chain risks and maintain steady supplies of materials. Dealing with supply chain constraints is crucial when production timetables need to be maintained and market demands are supposed to be fulfilled.

3. **High Costs of Advanced Technologies:** The expense incurred in advanced technologies such as molecular diagnostics, multiplex assays may make them unaffordable at large scale use. High price tags may limit the reach of testing solutions especially in poorly endowed locations with resources. In order to deal with this challenge, companies must look for ways to decrease the price tag on their innovations as well as increase their availability.

Technological advances, increased worries about food safety, increased disease prevalence, investment in health infrastructure and government policies are the key drivers and constraints impacting the enteric disease testing industry. Also affecting the market are challenges like regulatory concerns, high costs, supply chain disruption. Understanding these factors helps stakeholders navigate the market and identify opportunities for growth and innovation.

### List of Enteric Disease Testing Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies enteric disease testing companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the enteric disease testing companies profiled in this report include-

Merck

Thermo Fisher Scientific

SGS

Eurofins Scientific

Bureau Veritas

Intertek

Romer Labs

Perkinelmer

Becton Dickinson

### Enteric Disease Testing by Segment



The study includes a forecast for the global enteric disease testing by technology, end use, and region.

Enteric Disease Testing Market by Technology [Analysis by Value from 2018 to 2030]:

Traditional

Rapid

Convenience-Based

Polymerase Chain Reaction

Immunoassay

Chromatography & Spectrometry

Enteric Disease Testing Market by End Use [Analysis by Value from 2018 to 2030]:

Food

Water

Enteric Disease Testing Market by Region [Shipment Analysis by Value from 2018 to 2030]:

North America

Europe

Asia Pacific

The Rest of the World

Country Wise Outlook for the Enteric Disease Testing Market



The enteric disease testing market has recently witnessed significant advancements due to the increased awareness of foodborne diseases, technological advancements, and change in public health priorities. Improved diagnostics, better testing accuracy and quicker results have become more important. This is as a result of a need to manage diseases better and respond to outbreaks. The rate at which these changes occur differ depending on the healthcare infrastructure existing in the respective key markets such as United States, China, Germany, India and Japan along with their regulatory environment besides disease prevalence.

**China:** The enteric disease testing market in China is growing fast with huge investments made in diagnostic technology and infrastructure. This necessitates the development of high throughput automated systems that can handle large numbers of tests and are related to higher food safety concerns and increased population density. In addition, the Chinese government is involved in funding research and development to improve food safety standards as well as respond to outbreaks. Furthermore, incorporation of AI and machine learning into diagnostic processes has led to better efficiency and accuracy during enteric disease testing.

**Germany:** Germany has made substantial efforts in enteric disease testing through molecular diagnostics and improved regulatory frameworks. The country is focusing on enhancing test accuracy while reducing time to diagnosis through innovations like multiplex assays for simultaneous multiple pathogen detection. In addition, Germany is developing capacities for public health response by integrating advanced data analytics as well as digital platforms into its testing procedures. These developments are consistent with Germany's commitment to high standards in food safety control and prevention of diseases

**India:** Recent developments in diagnosing enteric diseases in India have incorporated more affordable and accessible diagnostic tools such as rapid antigen tests and simplified molecular assays. Disease surveillance and management is being improved through attempts to enhance testing infrastructure in rural areas and underserved populations. Global organizations' partnerships with the government are centered on improving data collection and expanding testing capabilities. These advancements are a response to an increase in cases of enteric diseases as a result of poor sanitation, food safety issues among others.

**Japan:** Technological advancements and an increasing emphasis on preventive

healthcare are driving the growth of Japan's market for enteric disease testing. The nation is increasingly using PCR and biosensors among other advanced diagnostic techniques for better detection of pathogenic organisms that cause enteric infections. To develop new methodologies for examination while enhancing the already existing ones Japan spends money on research. There is also ongoing effort aimed at integrating the national health surveillance systems with the test solutions so that there can be outbreak detection enhancement as well as response capacities improvement too.

## Features of the Global Enteric Disease Testing Market

**Market Size Estimates:** Enteric disease testing market size estimation in terms of value (\$B).

**Trend and Forecast Analysis:** Market trends (2018 to 2023) and forecast (2024 to 2030) by various segments and regions.

**Segmentation Analysis:** Enteric disease testing market size by technology, end use, and region in terms of value (\$B).

**Regional Analysis:** Enteric disease testing market breakdown by North America, Europe, Asia Pacific, and Rest of the World.

**Growth Opportunities:** Analysis of growth opportunities in different technology, end use, and regions for the enteric disease testing market.

**Strategic Analysis:** This includes M&A, new product development, and competitive landscape of the enteric disease testing market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

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## FAQ

Q.1 What is the enteric disease testing market size?

Answer: The global enteric disease testing market is expected to reach an estimated \$5.1 billion by 2030.

Q.2 What is the growth forecast for enteric disease testing market?

Answer: The global enteric disease testing market is expected to grow with a CAGR of 3.5% from 2024 to 2030.

Q.3 What are the major drivers influencing the growth of the enteric disease testing market?

Answer: The major drivers for this market are rising number of innovations and technological advancements in enteric disease testing devices, increasing focus on sample utilization, and growing advancement for quicker, proficient, and cheaper computing hardware tied with better network connectivity.

Q4. What are the major segments for enteric disease testing market?

Answer: The future of the global enteric disease testing market looks promising with opportunities in the water and food markets.

Q5. Who are the key enteric disease testing market companies?

Answer: Some of the key enteric disease testing companies are as follows:

Merck

Thermo Fisher Scientific

SGS

Eurofins Scientific

Bureau Veritas

Intertek

Romer Labs

PerkinElmer

Becton Dickinson

Q6. Which enteric disease testing market segment will be the largest in future?

Answer: Lucintel forecasts that traditional testing will remain the largest segment over the forecast period due to growing demand for processed and convenience food, as well as, increasing incidences of enteric diseases.

Q7. In enteric disease testing market, which region is expected to be the largest in next 5 years?

Answer: North America will remain the largest segment over the forecast period due to the rising incidences of enteric diseases and increasing regulatory efforts for spreading awareness regarding the availability of enteric diseases in this region.

Q.8 Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% customization without any additional cost.

This report answers following 11 key questions:

Q.1. What are some of the most promising, high-growth opportunities for the enteric disease testing market by technology (traditional, rapid, convenience-based, polymerase chain reaction, immunoassay, and chromatography & spectrometry), end use (food and water), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which region will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the key challenges and business risks in this market?

Q.5. What are the business risks and competitive threats in this market?

Q.6. What are the emerging trends in this market and the reasons behind them?

Q.7. What are some of the changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading these developments?

Q.9. Who are the major players in this market? What strategic initiatives are key players pursuing for business growth?

Q.10. What are some of the competing products in this market and how big of a threat do they pose for loss of market share by material or product substitution?

Q.11. What M&A activity has occurred in the last 5 years and what has its impact been on the industry?

For any questions related to Enteric Disease Testing Market, Enteric Disease Testing Market Size, Enteric Disease Testing Market Growth, Enteric Disease Testing Market Analysis, Enteric Disease Testing Market Report, Enteric Disease Testing Market Share, Enteric Disease Testing Market Trends, Enteric Disease Testing Market Forecast, Enteric Disease Testing Companies, write Lucintel analyst at email: [helpdesk@lucintel.com](mailto:helpdesk@lucintel.com). We will be glad to get back to you soon.

Market Report

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7.5: Bureau Veritas

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7.9: Becton Dickinson

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