

# Dairy Residue Testing Service Market Report: Trends, Forecast and Competitive Analysis to 2030

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## Abstracts

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### Dairy Residue Testing Service Trends and Forecast

The future of the global dairy residue testing service market looks promising with opportunities in the third-party testing company, universities & research institutes, and quality supervision center markets. The global dairy residue testing service market is expected to grow with a CAGR of 8.2% from 2024 to 2030. The major drivers for this market are rising consumer awareness regarding product quality and increasing international trade of dairy products, necessitating quality control and testing services.

Lucintel forecasts that, within the type category, pesticide is expected to witness the highest growth over the forecast period.

Within the application category, third-party testing companies are expected to witness the highest growth.

In terms of regions, North America is expected to witness the highest growth over the forecast period.

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### Emerging Trends in the Dairy Residue Testing Service Market

The dairy residue testing service market is witnessing emerging trends that are redefining it, focusing on technology, compliance, and the consumer's desire for safer, clearer dairy products than ever before.

**In-House Testing for Farms:** Increasingly, more dairy farms are purchasing in-house testing equipment for regulatory compliance purposes and to avoid fines. This trend is particularly strong in areas such as the U.S. and Europe, which are seeking to achieve stricter residue-free requirements.

**Increased Concentration on Organic Dairy Products:** There is a growing market for organic dairy products, which brings about the need for stricter residue assessment. Manufacturers of organic dairy products are assuring consumers that they do not include synthetic hormones and antibiotics, thus creating a demand for testing services.

**Real-Time and Rapid Testing Solutions:** In response to this need, manufacturers are advancing toward real-time testing solutions that can provide results in a matter of minutes. The demand is high in countries such as China and India, where speedy testing can avert health hazards and prevent the removal of products from the market.

**Global Regulatory Convergence:** There is increasing synchrony in dairy residue testing practices across various regions due to the introduction of stricter regulatory laws and trade agreements. This situation places a burden on dairy producers and testing services to adopt testing methods that conform to both local and international standards, as countries increasingly embrace homogeneous standards for residue testing.

These new trends, such as high returns on investment for better testing services, are related to meeting consumer needs for safe dairy products and adhering to international best practices. Previously, this method was relatively costly, and implementing change took time, but growing pressures for real-time testing and advancing technology, along with increasing regulatory demands, have made dairy products safer for consumers.

## Recent Developments in the Dairy Residue Testing Service Market

Several important changes have affected the dairy residue testing service market, focusing on the effectiveness of testing services, current policies, and increased

consumer expectations regarding the safety and quality of dairy products.

**Adoption of Advanced Testing Technologies:** Technologies such as BD tests and LC-MS allow for faster and more precise residue tests. These technologies enable laboratories to perform deep screenings for various antibiotic and pesticide residues in dairy products.

**Widely Efficient Regulatory Mechanisms:** Regulatory authorities in various parts of the world, especially in the U.S. and China, have set lower residue limits for milk and milk products. Such policies compel dairy marketers to enhance their testing services to satisfy regulations and meet consumer needs.

**Expansion of Third-Party Testing:** Both consumers and dairy producers are increasingly willing to use third-party testing services to ensure the safety of their products. This trend is particularly strong in Europe and North America, where products are subjected to stringent regulatory measures.

**Increased Investment in In-House Testing:** Within dairy farms, practitioners are installing in-house residue testing equipment to quickly address noncompliance regulatory issues. This trend is increasing in the U.S. and European markets due to the high demand for speedy turnaround.

**Geographic Spread of Testing Services to Emerging Markets:** The rising demand for dairy products in developing economies, particularly India and China, is contributing to the growth of service providers in these regions. The construction of modern laboratories and the purchase of testing devices are helping these countries achieve global safety benchmarks for dairy products.

Establishments such as regulatory and technological improvements have greatly encouraged growth in the dairy residue testing services market over the past few years, especially in developed and developing economies. Companies are committing significant resources to these developments to protect end users and remain relevant in the evolving global market.

### Strategic Growth Opportunities for Dairy Residue Testing Service Market

The dairy residue testing service market has several application advantages, including in-house testing, third-party labs, and emerging markets, which present numerous

growth opportunities.

**Expansion of In-House Testing Services:** The increasing adoption of in-house testing technologies by dairy producers enables rapid adherence to regulations. This creates opportunities for testing service providers to design simple, portable testing equipment suitable for use on farms and in processing facilities.

**Third-Party Testing for Global Compliance:** Third-party testing laboratories have opportunities for expansion by providing services that enable dairy producers to meet international quality and safety requirements for their products. This is critical for producers needing to export dairy goods to regions like the EU and the U.S.

**Emerging Market Expansion:** Due to rising dairy consumption in India and China, testing service providers have a chance to penetrate these markets. Adapting testing facilities to meet local standards presents an opportunity for growth.

**Organic and Specialty Dairy Testing:** As consumers demand more organic and specialty dairy products, there is a need to enhance specialized residue testing. Firms can meet this demand by providing specifically designed tests for organic dairy products.

**Technological Solutions for Real-Time Testing:** There is significant potential for growth for companies that invest in rapid and real-time testing technologies in the dairy industry. Any company that manufactures quicker and more efficient testing tools will undoubtedly meet the rising demand for rapid and precise results.

These strategic growth opportunities exemplify trends in the dairy residue testing service market. We have seen successful approaches that identify new markets, organic testing, and innovative technologies in this dynamic and competitive landscape.

### Dairy Residue Testing Service Market Driver and Challenges

The dairy residue testing service market is influenced by various factors, including social, technological, economic, and regulatory elements. While there are several drivers supporting market development, significant challenges must also be overcome.

for continued growth.

The factors responsible for driving the dairy residue testing service market include:

**Stringent Regulatory Standards:** Stricter regulations, particularly in the United States, Europe, and China, compel dairy producers to invest in residue testing services to adhere to regulations and avoid penalties, thereby increasing market potential for advanced testing solutions.

**Consumer Demand for Safe Dairy Products:** As consumers become more conscious of food safety concerns, the demand for residue-free dairy products has greatly increased. This demand is met through more sophisticated solutions and services provided by testing service providers.

**Technological Advancements:** Innovations in LC-MS/MS testing technologies and the introduction of rapid biosensors are increasing the speed of residue detection. This advancement drives market growth by enhancing consumer satisfaction and trust through quick and accurate results.

**Growth in Dairy Consumption in Emerging Markets:** Increased dairy consumption in China, India, and other emerging countries stimulates the market for residue testing. Companies are broadening their services in these regions to address local and foreign safety regulations.

**Pressure to Maintain Export Standards:** With the growing global market for dairy products, producers are under pressure to comply with international quality standards. Testing services are vital for ensuring adherence to these standards.

Challenges in the dairy residue testing service market include:

**High Testing Costs:** Advanced testing technologies can be costly, presenting a barrier for small and

medium-sized dairy producers. The high costs of specialized equipment and reagents may limit market accessibility for some producers.

**Differences in Regulatory Compliance:** Variability in residue tolerance levels

across countries presents challenges for many international producers. This inconsistency complicates achieving uniformity in testing services across different jurisdictions.

**Inability to Reach Remote Regions Due to Testing Facility Locations:** In some underdeveloped regions, advanced testing laboratories are scarce. This lack of access can hinder efforts to ensure that dairy products are entirely free from residue. Companies need to develop effective logistics strategies to overcome these challenges.

The trends of stringent regulations, increased consumer awareness, and the availability of advanced technologies are propelling growth in the dairy residue testing service market. However, challenges such as high testing costs, inconsistent regulations, and lack of service in remote areas must be addressed. Businesses that navigate these challenges while capitalizing on growth opportunities will perform better in the evolving competitive landscape.

#### List of Dairy Residue Testing Service 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. Through these strategies dairy residue testing service companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the dairy residue testing service companies profiled in this report include-

SGS

ALS

Eurofins Scientific

AB SCIEX

Bureau Veritas

Intertek

Arbro Pharmaceuticals

Fera Science

AGQ Labs

Waters Agricultural Laboratories

## Dairy Residue Testing Service by Segment

The study includes a forecast for the global dairy residue testing service by type, application, and region.

### Dairy Residue Testing Service Market by Type [Analysis by Value from 2018 to 2030]:

Pesticide

Toxin

Allergen

Heavy Metal

Other

### Dairy Residue Testing Service Market by Application [Analysis by Value from 2018 to 2030]:

Third-Party Testing Company

Universities & Research Institutes

Quality Supervision Center

### Dairy Residue Testing Service Market by Region [Analysis by Value from 2018 to 2030]:



North America

Europe

Asia Pacific

The Rest of the World

## Country Wise Outlook for the Dairy Residue Testing Service Market

The dairy residue testing service market is responding to consumers' concerns about food safety and quality, as well as regulatory policies. Dairy residues such as antibiotics, pesticides, and heavy metals pose hazards to consumers and the industry. Regional differences are pronounced in the U.S., China, Germany, India, and Japan, as new testing technologies are introduced to meet effective regulatory requirements, ensuring that dairy products are safe and of high quality.

**United States:** In the U.S., factors such as growing awareness of food safety and increasing FDA regulations are driving the growth of the dairy residue testing service market. Additionally, most laboratories are incorporating advanced testing methods like liquid chromatography-mass spectrometry (LC-MS) for detecting these residues. The rise in meat consumption has heightened the demand for thorough laboratory tests in both mainstream and specialty markets. Furthermore, compliance with regulations has led dairy farmers to conduct internal residue analyses.

**China:** China's dairy residue testing service market is expanding rapidly due to food safety concerns and government initiatives to introduce new food safety regulations. Chinese officials are focusing on tracking antibiotics, hormones, and heavy metals in dairy products. The increasing importation of dairy products and growing consumer education are driving dairy farms and companies to seek broader testing services. Additionally, there is a growing adoption of real-time testing technologies within the industry.

**Germany:** Germany's market for testing dairy products for residues is bolstered by the need to comply with stringent European Union regulations and meet consumer demand for high-quality, contaminant-free products. Advanced testing technologies such as ELISA and high-pressure liquid chromatography (HPLC)



are commonly used to detect harmful residues. The shift toward more organic and sustainable dairy farming practices is also prompting more frequent testing. Furthermore, partnerships between private laboratories and dairy manufacturing entities are on the rise.

**India:** In India, the dairy residue testing service market is on the rise due to increasing demand for food safety, driven by consumer concerns about the presence of residues in food. The Food Safety and Standards Authority of India (FSSAI) has intensified efforts against the use of antibiotics and other harmful substances. More testing laboratories are adopting advanced technologies like polymerase chain reaction (PCR) for rapid detection, with significant investment in upgrading facilities to meet international standards.

**Japan:** Japan's dairy residue testing service market is technologically advanced and operates under stringent legal requirements. To meet the growing consumer demand for safe, high-quality dairy products, Japanese manufacturers are investing heavily in complex testing instruments such as mass spectrometers and chromatographs. The focus on consumer health and food safety, along with the desire to achieve international standards, has also contributed to market growth. Additionally, there is an increasing shift among Japanese consumers toward organic and traceable products, creating further demand for testing services.

## Features of the Global Dairy Residue Testing Service Market

**Market Size Estimates:** Dairy residue testing service 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:** Dairy residue testing service market size by type, application, and region in terms of value (\$B).

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

**Growth Opportunities:** Analysis of growth opportunities in different types, applications,

and regions for the dairy residue testing service market.

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

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

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This report answers following 11 key questions:

Q.1. What are some of the most promising, high-growth opportunities for the dairy residue testing service market by type (pesticide, toxin, allergen, heavy metal, and other), application (third-party testing company, universities & research institutes, and quality supervision center), 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?

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