

## **Pesticide Residue Testing Market Report and Forecast 2025-2034**

Market Report | 2025-07-14 | 172 pages | EMR Inc.

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### **Report description:**

The global pesticide residue testing market size reached approximately USD 1.72 Billion in 2024. The market is further projected to grow at a CAGR of 6.10% between 2025 and 2034, reaching a value of USD 3.11 Billion by 2034.

#### Key Trends in the Market

Pesticide residue testing is a process that determines the pesticide residue levels in various food products through an in-depth microbiological and chemical analysis. Presence of pesticide residues in food products can result in steady accumulation of harmful chemicals, which may then enter the food chain.

- Rising consumer awareness along with the growing demand for organic food products is aiding the pesticide residue testing market growth. The consumers seeking organic food products expect them to undergo stringent testing and obtain required certifications from reputable organisations to verify the absence of pesticide residue in the products.
- The introduction of stringent food safety regulations by various governments is another major factor boosting the utilisation of pesticide residue testing. The testing ensures that the food products comply with the relevant standards and guidelines for minimising the levels of harmful fungicides, herbicides, and pesticides in the food chain.
- Increasing utilisation of pesticides, insecticides, and herbicides in agriculture to boost yield is bolstering the requirement for pesticide residue testing in fruits and vegetables. Pesticide residues, if consumed, can pose chronic or acute risks to human health depending upon the vulnerability of the consumer and the level of residue contamination.

#### Market Segmentation

The EMR's report titled "Pesticide Residue Testing Market Report and Forecast 2025-2034 offers a detailed analysis of the market based on the following segments:

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#### Market Breakup by Type

- Herbicides
- Insecticides
- Fungicides
- Others

#### Market Breakup by Technology

- High Performance Liquid Chromatography (HPLC)
- Single Residue Method
- Gas Chromatography
- Multi Residue Method
- Others

#### Market Breakup by Food Tested

- Fruits
- Vegetables
- Meat and Poultry
- Dairy Products
- Processed Foods
- Others

#### Market Breakup by Class

- Organochlorines
- Organophosphates
- Organonitrogens
- Carbamates

#### Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

#### Market Share by Class

Organochlorines are anticipated to account for a significant pesticide residue testing market share. Organochlorine pesticides belong to the group of chlorinated hydrocarbon derivatives and have a wide range of applications in the agriculture and chemical industries. They are known to have slow degradation, high toxicity, and bioaccumulation. Due to their biomagnification in the food chain, these compounds are highly persistent in the environment. The toxicity of these pesticides varies as per their volatility and molecular size, among others, making pesticide residue testing necessary in food products that may contain these chemicals.

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## Market Share by Region

As per the pesticide residue testing market analysis, North America is expected to account for a significant share of the market over the forecast period owing to the presence of stringent food safety regulations. The presence of a well-established food and beverage sector along with various major market players is further aiding the market expansion in the region. The deployment of rigorous pesticide residue testing systems by countries such as the United States and Canada coupled with early adoption of advanced technologies is further boosting the pesticide residue testing market demand in North America.

## Competitive Landscape

The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis. The report gives a detailed analysis of the following key players in the global pesticide residue testing market, covering their competitive landscape and latest developments like mergers, acquisitions, investments, and expansion plans.

### Eurofins Scientific SE

Eurofins Scientific SE provides a unique range of analytical testing services across various industries to make environment more sustainable, healthier, and safer. They are the global leaders in environmental, food, cosmetic, and pharmaceutical product testing.

### Merieux NutriSciences Corporation

Merieux NutriSciences Corporation, headquartered in Chicago, United States, offers practical testing, training, consulting, auditing, and research solutions to meet the requirements of caterers, manufacturers, retailers, and food processors.

### Bureau Veritas specialises

Bureau Veritas specialises in inspection, testing, and certification, and operates in various sectors including agri-food, infrastructure, and commodities. The company was founded in 1828 and is headquartered in Neuilly-sur-Seine, France.

Other market players include AsureQuality Limited, ALS Limited, Symbio Laboratories, Intertek Group plc, and IEH Laboratories and Consulting Group, among others.

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