

Agriculture Biologicals Testing Market Size Expected to Reach \$5.5 Billion by 2032

The agriculture biologicals testing market was valued at \$2.7 billion in 2022, and is estimated to reach \$5.5 billion by 2032, growing at a CAGR of 7.3%

WILMINGTON, DE, UNITED STATES, September 29, 2025 /EINPresswire.com/ -- The agriculture biological testing market involves the use of a variety of chemical methods to detect and quantify the presence of bacteria, viruses, and other pests in crops, livestock, and soil. This helps improve the quality and safety of products, reduce the risk of infection and contamination, and ensure compliance with regulatory standards. Agriculture biological testing includes various tests such as microbial testing, pesticide residue testing, allergen testing, and genetic testing. As the world population continues to increase, the demand for agricultural products is expected to increase, leading to further expansion of the agriculture biological testing market.

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The players in the agriculture biological testing market have adopted acquisition, business expansion, partnership, collaboration, and product launch as their key development strategies to increase profitability and improve their position in the market. Some of the key players profiled in the meat agriculture biological testing market analysis include SGS SA, Eurofins Scientific, Bionema Limited, Anadiag Group, Syntech Research Group, Staphyt SA, Laus GmbH, ALS Limited, RJ Hill Laboratories Limited, Eurofins APAL Pty Ltd.

The agriculture food and related industries contributed roughly \$1.264 trillion to U.S. gross domestic product (GDP) in 2021, a 5.4 percent share. The output of America's farms contributed \$164.7 billion of this sum—about 0.7 percent of the U.S. GDP. The overall contribution of agriculture to GDP is larger than 0.7 percent because sectors related to agriculture rely on agricultural inputs to contribute added value to the economy. Moreover, as per International Food Policy Research Institute, the central goal of every developing country is to reach high-income status. Agriculture plays a critical role in transforming economies to reach the goal, along with achieving other essential development goals like ensuring food security and improving nutrition.

The agriculture biologicals testing industry is rapidly growing as the use of biotechnology in agriculture is increasing. Biotechnology has changed the way we grow crops, and there is now

awareness of the benefits of using chemicals to increase crop yields and improve soil health. A biological detection is an important tool in this process, allowing farmers to monitor the health of their crops and detect potential problems before they become serious problems.

Governments of different countries have implemented many measures in agriculture biological testing to ensure the quality and safety of agricultural products. They have established laboratories across countries that are equipped with modern equipment and technology. These laboratories can perform various tests on agricultural products, including seed testing, soil testing, moisture testing, and pesticides testing boost the [agriculture biologicals testing market](#) opportunities.

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The increasing importance of soil testing has led to an increased demand for the agriculture biological testing industry. With advances in biotechnology, seed testing has become an essential part of the agricultural industry. Seed testing is important to ensure seed quality and the ability to produce healthy crops. This test helps identify the presence of diseases or pests that could harm crops. It also provides information about the genetic makeup of seeds, enabling farmers to choose the best seeds for their specific needs. The biological testing industry has gained significant momentum in recent years due to the increasing demand for accurate and reliable genetic testing. The market includes various services such as seed viability testing, genetic purity testing, and seed germination testing, among others. These services use various biological techniques, including DNA sequencing, PCR analysis, and ELISA testing, to determine the quality of seeds accurately which increases the Agriculture Biologicals Testing Market Demand.

The growing need for sustainable crop production has increased the demand for the agriculture biological testing industry. As the population grows, more crops must be produced with fewer resources, while the use of chemicals and fertilizers leads to environmental degradation results in agriculture biologicals testing market trends. As a result, there has been a shift toward sustainable crop production, which includes the use of chemicals to ensure healthy and good crops. Bioassays help identify diseases and pests that can affect crops, thereby improving crop production. Additionally, increasing demand for organic food has led to the use of bioanalyses to detect pesticides and other harmful chemicals in food. This trend creates a significant business opportunity for companies offering biological testing. As a result, market demand for agriculture biological testing has increased and this trend is expected to continue to surge during the forecast period.

Moreover, the government has established a policy to ensure that agricultural products are tested and approved before they are placed on the market which helps agriculture biologicals testing market growth. This framework includes the application of various laws and regulations for the testing and certification of agricultural products. For example, the Plant Quarantine (Regulation of Import into India) Order, 2003, regulates the import of plant materials into India

and mandates the testing of such materials for pests and diseases. In addition, to these measures, the government has announced several plans to promote the use of biofertilizers and biopesticides in agriculture. These projects aim to reduce the use of fertilizers and pesticides and to encourage the use of natural and organic products. The government also provides financial support to farmers to encourage them to adopt such practices.

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The agriculture biologicals testing market analysis into product type, end-user, and region. By product type, the market is bifurcated into bio pesticides, bio fertilizers, bio stimulants. As per end-user, the market is divided into biological product manufacturers, government agencies, plant breeders, and outsourced contract research organization. Region-wise, the market is analyzed across North America (the U.S., Canada, and Mexico), Europe (Germany, UK, France, Russia, Spain, Italy, and the rest of Europe), Asia-Pacific (China, Japan, South Korea, India, Australia, and rest of Asia-Pacific), and LAMEA (Latin America, Middle East, Africa).

Based on product type, the bio pesticides segment held the highest market share in 2022, accounting for more than two-fifth of the global agriculture biological testing market revenue and is estimated to maintain its leadership status throughout the forecast period. The major trend in the agriculture biological testing market for bio pesticides is the development of new methods and technologies. However, the bio fertilizers segment is projected to manifest the highest CAGR of 8.0% from 2023 to 2032, The use of bio fertilizers in agriculture has increased in recent years as farmers and growers seek sustainable and environmentally friendly ways to grow crops.

Based on end-users, the biological Product Manufacturers segment held the highest market share in 2021, accounting for nearly two-fifth of the global agriculture biological testing market revenue and is expected to portray the largest CAGR of 7.7% from 2023 to 2032, estimated to maintain its leadership status throughout the forecast period. In this market, biological product manufacturers are playing a crucial role by offering innovative solutions that help in enhancing crop yield and productivity while minimizing the impact of chemical fertilizers and pesticides on the environment such factor surge the agriculture biologicals testing market share.

Based on region, agriculture biologicals testing market size in North America held the highest market share in terms of revenue in 2021, accounting for more than one-third of the global agriculture biological testing market revenue, owing to driven by the growing demand for sustainable agriculture and the need to ensure food security. In addition, the increasing number of crop diseases and the development of genetically modified organisms (GMOs) are also contributing to the growth of this industry. However, the Asia-Pacific region is expected to witness the fastest CAGR of 9.1% from 2023 to 2032. The region is the most populated region in the world and food safety has become a major concern due to the presence of foodborne diseases.

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