

Agricultural Biologicals Market Growth Analysis - Forecast Trends and Outlook (2025-2034)

Market Report | 2025-07-28 | 167 pages | EMR Inc.

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Report description:

The global agricultural biologicals market is expected to grow at a CAGR of 12.50% during the period 2025-2034.

Global Agricultural Biologicals Market Growth

Agricultural biologicals is one of the rapidly growing segments in agricultural inputs. The global agricultural biologicals markets is expected to be driven by several factors, including growing need for novel innovations to fulfil the food demands of an increasing global population, sustainable agricultural solutions, rising consumer interest in organic solutions, resistance of weeds and insects to agricultural chemicals, and concerns towards the impact of prevailing agricultural practices on the environment. □Agricultural biologicals offer solutions to address such issues and provide sustainable methods to enhance firm productivity and meet the challenge of producing sufficient food crops to fulfil the ever-increasing demand for food. □North America, Europe, Latin America and Asia are expected to be key markets.

Agricultural biologicals refer to a group of diverse products drawn from naturally occurring microorganisms, plant extracts, useful insects and other organic matter. On the basis of use in agriculture, agricultural biologicals are classified into three key categories:

- Biostimulants - products that promote plant growth and enhance productivity.
- Biopesticides - products aimed at biocontrol or protection of flora.
- Biofertility - products intended to enhance plant nutrition.

Agricultural biologicals help growers manage resistance, improve soil health and decrease residue. For example, in combination with synthetic chemicals, biocontrol solutions may lead to delayed resistance and enhanced life of other products. Biostimulants enhance plant health and enable flora to survive stresses such as heat and drought.

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Solutions Aimed at Combating Abiotic Stress Expected to Witness Increased Demand

Abiotic stress faced by row crops is a major challenge faced by the agriculture industry. Solutions effectively and efficiently addressing abiotic stress in row crops grown in different field sizes are thus projected to experience an increase in demand. Leading firms constantly seek to offer effective biostimulants and are engaged in research and development activities to find superior solutions. For example, in 2018, Agricen and Taranis received a grant from the Israel-U.S. Binational Industrial Research and Development (BIRD) Foundation to collaborate on the advancement and commercialization of a new precision agriculture system for crop abiotic stress detection and prevention. The joint project sought to develop the world's first comprehensive system to recognize early signs of abiotic stress employing field imaging technology and a proprietary deep learning algorithm.

Syngenta developed VIBRANCE, specifically for seed treatment. The product offers a wide spectrum disease control and promotes stronger and healthier roots for better crop productivity. The VIBRANCE root stimulating effect offers better biotic and abiotic stress management.

The Gowan Company (earlier Isagro) offers products such as Siapton, Aminoplant, Tamarack, and Clarus that lead to increased production and induce resistance to abiotic elements such as salinity, drought, low temperatures, and transplant shock. The products also help in increased micronutrient intake by flora and enhanced pollen germination. All crops may be treated with these products.

Introduction of Technology Based, Innovative and Sustainable Solutions Likely to Boost Market Growth

Several companies are looking to incorporate technology to produce novel, more effective and sustainable products. For example, in 2021, Syngenta Crop Protection and Insilico Medicine came together to employ artificial intelligence and deep learning to speed up the invention of new, more sustainable products and technologies for growers.

In 2023, Loveland Products, a part of Nutrien Ltd., announced the launch of Accomplish MAX, a next-generation biocatalyst that offered nutrient efficiency and crop stress tolerance benefits. The product was available through Nutrien Ag Solutions retail locations. Accomplish MAX is a proprietary combination of Loveland Products' Accomplish biocatalyst technology and a front-line kelp technology designed to improve crop tolerance to abiotic stressors such as cold temperatures, drought and fertilizer salts.

In 2021, BASF and AgBiome collaborated to introduce a new biological fungicide for Europe, Middle East and Africa. Developed by AgBiome and marketed as Howler in the United States, the biological fungicide with multiple action modes provided preventative, long-lasting activity on a wide range of soilborne and foliar diseases.

Such innovative and technologically advanced solutions are likely to promote market growth.

Global Agricultural Biologicals Industry Segmentation

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

By type, the market is segmented into:

- Bio-Pesticides
- Bio-Stimulants
- Bio-Fertilizers

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By source, the market is classified into:

- Microbials
- Biochemicals
- Others

By application, the market is divided into:

- Foliar Spray
- Seed Treatment
- Soil Treatment
- Post-Harvest

By crop type, the market is classified into:

- Cereals and Grains
- Oilseeds and Pulses
- Fruits and Vegetables
- Others

By region, the market is segmented into:

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

Key Industry Players in the Global Agricultural Biologicals Market

The report presents a detailed analysis of the following key players in the market, looking into their capacity, and latest developments like capacity expansions, plant turnarounds, and mergers and acquisitions:

- BASF SE
- Gowan Company, L.L.C. (Isagro S.p.A.)
- Syngenta Crop Protection AG
- Marrone Bio Innovations, Inc.
- Vegalab SA
- Lallemand Inc.
- Others

The EMR report gives an in-depth insight into the industry by providing a SWOT analysis as well as an analysis of Porter's Five Forces model.

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