

Global Agrochemical Biosolutions Market Size Study & Forecast, by Crop (Cereals & Grains, Oilseeds & Pulses, Fruits & Vegetables, Others) and Type and Application and Regional Forecasts 2025-2035

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Abstracts

The Global Agrochemical Biosolutions Market is valued at approximately USD 9.07 billion in 2024 and is expected to advance at a CAGR of nearly 6.98% throughout 2025–2035. Agrochemical biosolutions, comprising biopesticides, biostimulants, biofertilizers, and other biologically derived inputs, have gradually redefined modern crop protection and nutrition strategies by offering sustainable alternatives to conventional chemicals. Developed from natural microorganisms, plant extracts, and biological compounds, these solutions help safeguard crops, stimulate plant growth, improve nutrient uptake efficiency, and restore soil vitality. The market's expansion is being driven by intensifying pressure on global food systems, stricter environmental regulations, and growers' accelerating shift toward regenerative agricultural practices. As climate volatility constrains conventional farming outputs, biosolutions are being increasingly adopted as a core component of future-ready farming systems.

The rising need to meet global food security targets has prompted many countries to step up biological research initiatives and adopt policies that incentivize low-residue, eco-friendly farming inputs. Consequently, leading agricultural enterprises have ramped up their investments in biosolution portfolios, integrating precision farming tools with bio-based inputs to enhance yields sustainably. These advancements have catalyzed broader adoption across both large-scale agribusiness operations and smallholder farmer networks. However, the market must still navigate challenges related to shelf stability, variable climatic performance, and the lack of standardized regulatory frameworks across regions. Even so, rapid biotechnology advancement, growing organic farming acreage, and the development of microbial consortia offer substantial

opportunities for future market growth.

The detailed segments and sub-segments included in the report are:

By Crop:

Cereals & Grains

Oilseeds & Pulses

Fruits & Vegetables

Others

By Type:

Biopesticides (Biochemicals, Microbials)

Biostimulants (Acid-Based, Seaweed Extract, Microbials, Others)

Biofertilizers (Nitrogen Fixation, Phosphate Solubilizing, Others)

Others

By Application:

Foliar Spray

Seed Treatment

Soil Treatment

Post-Harvest

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Thailand

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Cereals & Grains is Expected to Dominate the Market

Cereals & grains are projected to maintain dominance within the crop segment, underpinned by the substantial global acreage dedicated to wheat, maize, rice, and other essential staples. As these crops form the backbone of global food systems, farmers continually rely on biosolutions to protect them against pests, nutrient deficiencies, and environmental stressors without compromising soil resilience. The segment's stronghold is further supported by large-scale government initiatives promoting balanced fertilization and integrated pest management programs—particularly in developing regions where yield gaps remain high. Although cereals & grains account for the largest share today, fruits & vegetables are rapidly emerging as the fastest-growing category, propelled by rising consumer demand for pesticide-free produce and intensifying organic farming activities.

Biopesticides Lead in Revenue Contribution

Among all product types, biopesticides currently generate the highest revenue contribution. Their dominance is attributed to escalating regulatory scrutiny surrounding chemical pesticides, increasing resistance among key pest populations, and the industry's pivot toward residue-free crop protection. Within this category, microbial biopesticides—comprising bacteria, fungi, and viruses—stand out as the primary revenue

drivers due to their broad-spectrum applicability and compatibility with integrated pest management systems. Meanwhile, biostimulants represent the fastest-growing sub-segment as farmers adopt them to improve abiotic stress tolerance, promote root vigor, and enhance nutrient mobilization in soil. This dual growth pattern underscores a maturing market where both yield improvement and environmental stewardship play equally pivotal roles.

North America Held the Largest Share, While Asia Pacific to Grow Fastest

The Agrochemical Biosolutions Market spans major regions including North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America dominated the market in 2024, supported by advanced farming technologies, heavy investments in agricultural biotechnology, and the active participation of global biosolution manufacturers. Strict regulatory limitations on chemical crop protection products further reinforce the demand for biosolutions across the U.S. and Canada. Europe follows closely, driven by its Green Deal directives and stringent sustainability commitments. Meanwhile, Asia Pacific is poised to record the fastest growth throughout 2025–2035. The region's vast agricultural footprint, rising demand for residue-free food, and increasing adoption of sustainable resource management practices in India, China, and Southeast Asia collectively fuel biosolution deployment. Government-led digitization of agricultural operations and expanding R&D collaborations also support rapid market penetration.

Major market players included in this report are:

BASF SE

Bayer AG

UniBio

Novozymes

Syngenta Group

CHT Group

Marrone Bio Innovations

Andermatt Group

UPL Limited

Sumitomo Chemical

Certis Biologicals

Koppert Biological Systems

Valagro

Isagro

Lallemand

Global Agrochemical Biosolutions Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries

involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained above:

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

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