

# **Biostimulants Market Report by Active Ingredients (Humic Substances, Seaweed Extracts, Amino Acids, Microbial Amendments, Minerals & Vitamins), Crop Type, Mode of Application, Form (Dry, Liquid) and Region - Global Forecast to 2029**

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## **Abstracts**

The global biostimulants market is estimated at USD 4.3 billion in 2024 and is projected to reach USD 7.6 billion by 2029, at a CAGR of 12.0% during the forecast period. Growing consumer preference toward organic farming will lead to drive the demand for biostimulants. Biostimulants, through their diverse mechanisms of action, have demonstrated the ability to promote root development, improve nutrient uptake efficiency, and stimulate overall plant growth. By enhancing these physiological processes, biostimulants can contribute to increased crop yields. This is particularly valuable in regions where agricultural productivity is challenged by factors such as nutrient deficiencies, soil degradation, and environmental stressors.

“Rise in sustainable agriculture lead to consumption of biostimulants.”

Biostimulants can enhance the absorption of nutrients by plants, making them more efficient in utilizing fertilizers. This can lead to reduced fertilizer use and minimized nutrient runoff, decreasing environmental pollution. By enhancing nutrient uptake and stress tolerance, biostimulants can reduce the need for chemical fertilizers, pesticides, and herbicides. This promotes environmentally friendly agricultural practices, reduces production costs, and minimizes negative impacts on soil and water quality. Some biostimulants stimulate beneficial microbial activity in the soil, leading to improved soil structure, fertility, and nutrient cycling. Healthy soils support robust plant growth and contribute to long-term sustainability in agriculture.

“In 2023, foliar application stood as the major segment within the mode of application segment of the biostimulants market.”

Biostimulants products applied to foliage directly affect plant biochemical pathways through the leaf surface, leading to enhanced protein synthesis and increased production of enzymes. These effects contribute to improved growth of both roots and shoots. Foliar treatments with biostimulants can boost plant productivity. Directly applying biostimulants on plant leaves enhances the effect of bioactive molecules on crop growth, leading to better absorption and improved uptake of micronutrients by all parts of the plant. Biostimulants applied to the foliage are generally absorbed more rapidly than when applied to the soil. The foliar application helps in correcting plant nutrient deficiencies quickly.

“Within the crop type segment, the cereals & grains constitute significant share.”

The consumption of cereals and grains is crucial for meeting the dietary needs of a growing population. As the demand for food rises, there's a greater emphasis on boosting cereal yields. Plant growth regulators are becoming increasingly important in achieving this goal. Recent data from the FAO shows an expected increase in global cereal utilization for 2023/24 compared to previous years. Additionally, forecasts indicate higher global cereal stocks by the end of 2024. This suggests a steady supply of cereals to meet demand. The growing demand for cereals highlights the importance of improving agricultural productivity, potentially leading to greater use of biostimulants to optimize yields and meet global requirements.

“The biostimulants market in North America is anticipated to maintain consistent growth throughout the forecast period.”

With a growing consumer preference for organic and sustainable agricultural practices, there's a rising demand for biostimulants, which are often seen as more environmentally friendly alternatives to traditional chemical fertilizers and pesticides. Intensive farming practices that aim to meet high agricultural demands have led to soil degradation and reduced soil nutrient quality. In North America, climate change events such as drought and soil degradation have further impacted agricultural productivity. To meet the demand for high yields without relying too heavily on agrochemicals, biostimulants are expected to experience an increase in usage in the US and Canada.

The Break-up of Primaries:

By Company Type: Tire 1- 30%, Tire 2- 35%, Tire 3- 35%

By Designation: CXOs – 30%, Managers – 50%, Executives – 20%

By Region: North America – 25%, Europe – 20%, Asia Pacific – 35%, South America - 10%, RoW - 10%

Key players in this market include BASF SE (Germany), UPL (India), FMC Corporation (US), Rallies India Limited (India), Sumitomo Chemical Co., Ltd. (Japan), Corteva. (US), Nufarm (Australia), Syngenta Crop Protection AG (Switzerland), PI Industries (India), ILSA S.p.A. (Italy), Coromandel International Limited (India), Haifa Group (Israel), T.Stanes and Company Limited (India), Gowan Company (US), and Koppert (The Netherlands).

Research Coverage:

The report segments the biostimulants market based on active ingredients, crop type, mode of application, formulations, and region. In terms of insights, this report has focused on various levels of analyses—the competitive landscape, end-use analysis, and company profiles, which together comprise and discuss views on the emerging & high-growth segments of the biostimulants market, high-growth regions, countries, government initiatives, drivers, restraints, opportunities, and challenges. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, services, key strategies, Contracts, partnerships, and agreements. New product launches, mergers and acquisitions, and recent developments associated with the biostimulants market. Competitive analysis of upcoming startups in the biostimulants market ecosystem is covered in this report.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall biostimulants market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities. The report provides insights on the following pointers:

Analysis of key drivers (increasing need for sustainable agriculture, easy

availability of seaweed as raw materials, strong demand for high-value crops). restraints (commercialization of low-quality of biostimulant products, preference for chemical pesticides among farmers in developing countries). opportunities (technological advancements in production of biostimulants, significant developments in seed treatment) and challenges (uncertainty in global stimulants regulatory framework).

**Product Development/Innovation:** Detailed insights on research & development activities and new product launches in the biostimulants market.

**Market Development:** Comprehensive information about lucrative markets – the report analyses the biostimulants market across varied regions.

**Market Diversification:** Exhaustive information about new products, untapped geographies, recent developments, and investments in the biostimulants market

**Competitive Assessment:** In-depth assessment of market shares, growth strategies, and product offerings of leading players like BASF SE (Germany), UPL (India), FMC Corporation (US), Rallies India Limited (India), Sumitomo Chemical Co., Ltd. (Japan), Corteva. (US), Nufarm (Australia), Syngenta Crop Protection AG (Switzerland), PI Industries (India), ILSA S.p.A. (Italy), Coromandel International Limited (India), Haifa Group (Israel), T.Stanes and Company Limited (India), Gowan Company (US), and Koppert (The Netherlands) in the biostimulants market.

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