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Plant Hormones Market – Global Industry Size, Share, Trends, Opportunity, & Forecast, Segmented By Type (Auxins, Cytokinin, Ethylene, Gibberellins, Other), By Formulation (Solution, Granules, Wet Powders, Others), By Function (Growth Promoters, Growth Inhibitors), By Application (Fruits & Vegetables, Cereals & Pulses, Oilseeds & Grains, Other), By Region and Competition, 2020-2030F

https://marketpublishers.com/r/P1A53C51A5F5EN.html
Date: February 2025
Pages: 180
Price: US$ 4,500.00 (Single User License)
ID: P1A53C51A5F5EN

Abstracts

Global Plant Hormones Market was valued at USD 2.97 billion in 2024 and is expected to reach USD 4.87 billion by 2030 with a CAGR of 8.59% during the forecast period. The Global Plant Hormones Market is a dynamic and evolving sector within the broader agricultural industry. Plant hormones, also known as phytohormones or plant growth regulators, are naturally occurring chemical messengers that regulate various physiological processes in plants. These compounds play a crucial role in influencing plant growth, development, and responses to environmental stimuli. The plant hormones market encompasses a wide range of products designed to enhance crop performance, improve yield, and address challenges related to stress, disease, and environmental conditions.

The plant hormones market is comprised of various categories, including types of plant hormones, formulations, functions, applications, and regions. Key types of plant hormones include auxins, gibberellins, cytokinins, abscisic acid, and ethylene. Different formulations, such as liquid concentrates, granules, and powder formulations, offer diverse application methods. The functions of plant hormones include growth promotion, stress alleviation, and reproductive regulation. The market spans applications in various

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crops, including cereals, pulses, fruits, vegetables, and ornamental plants, catering to the needs of diverse agricultural practices globally. Herbicide resistance is becoming increasingly common, with some areas experiencing a variety of herbicide-resistant weed species in their fields, making weed control more difficult. In the U.S. alone, experts have identified 25 weed species that are resistant to herbicides. In the UK, the weed Alopecurus monureides alone impacts cereal crop yields by up to 800,000 tonnes, leading to an estimated loss of USD 449.2 million (?380 million) annually in lost income for farmers, as reported by the Chemistry World blog in April 2021.

Key Market Drivers

Increasing Awareness and Adoption of Precision Agriculture

Precision agriculture, marked by the integration of cutting-edge technologies into traditional farming practices, is emerging as a significant driver for the growth of the global plant hormone market. This transformative approach aims to optimize the efficiency of agricultural processes, enhance crop yield, and mitigate environmental impact through data-driven decision-making. Precision agriculture utilizes data analytics, satellite imagery, and sensor technologies to monitor and manage crop variability in real-time. Plant hormones play a pivotal role in optimizing crop management by influencing key physiological processes such as germination, flowering, and fruit development. This optimization leads to better resource utilization and increased productivity. As farmers increasingly recognize the potential of precision agriculture to maximize yields and reduce resource inputs, the demand for plant hormones rises. These hormones become essential tools in the precision agriculture toolkit, driving market growth.

Environmental stresses, such as drought, temperature extremes, and soil salinity, pose significant challenges to crop production. Plant hormones, with their regulatory functions, can enhance stress tolerance in plants. Precision agriculture allows for the targeted application of plant hormones to manage stress and improve crop resilience under adverse conditions. The awareness of climate change impacts and the need for resilient crops drive the adoption of plant hormones in precision agriculture. Farmers seek solutions to mitigate the negative effects of environmental stress, contributing to the growth of the plant hormone market. Precision agriculture facilitates precise nutrient management by analyzing soil conditions and plant requirements. Plant hormones are employed to optimize nutrient uptake, improve nutrient use efficiency, and enhance the overall nutrient status of crops. This leads to improved crop quality and yield. The

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emphasis on efficient nutrient utilization aligns with the use of plant hormones to regulate nutrient-related processes in plants. As precision agriculture gains traction, the demand for plant hormones for targeted nutrient management contributes to market expansion.

Precision agriculture relies on data-driven decision-making, where farmers utilize real-time information to make informed choices about crop management. Plant hormones, integrated into this decision-making process, enable farmers to respond dynamically to changing conditions, optimizing plant growth and development. The integration of plant hormones into data-driven decision-making systems enhances the precision and effectiveness of farming practices. The demand for these hormones as essential components in the precision agriculture ecosystem fuels market growth. The increasing adoption of precision agriculture creates opportunities for the development and commercialization of plant hormone formulations tailored for specific crops, growth stages, and environmental conditions. This customization aligns with the precision agriculture paradigm, offering farmers targeted solutions for their unique challenges. Companies in the plant hormone market can capitalize on the demand for specialized formulations that align with precision agriculture requirements. The development of innovative products tailored for precision farming practices opens new avenues for market growth.

Key Market Challenges

Regulatory Hurdles and Approval Processes

The regulatory landscape surrounding the approval and use of plant hormones in agriculture can pose significant challenges. Different countries have varying regulations, and obtaining approvals for new formulations or applications can be a time-consuming and complex process. Regulatory bodies often require extensive testing to ensure the safety and efficacy of plant hormone products.

Lengthy regulatory approval processes can delay the introduction of new plant hormone products to the market. Companies operating in the plant hormone sector may face increased costs associated with compliance and may experience delays in commercialization, affecting overall market growth.

Key Market Trends

Rise in Demand for Bio-Based and Organic Farming Practices

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There is a growing global trend towards sustainable and eco-friendly agricultural practices, with an increasing emphasis on organic farming. Plant hormones, being natural compounds, align with the principles of organic and bio-based agriculture. Consumers are increasingly seeking products grown using environmentally friendly methods, encouraging farmers to adopt plant hormone-based solutions.

The demand for bio-based and organic farming practices creates opportunities for plant hormone market growth. As farmers transition towards sustainable methods, the market for plant hormones expands, driven by the need for natural alternatives to synthetic inputs. This trend is reinforced by consumer preferences for sustainably produced food.

Key Market Players

BASF SE

Syngenta AG

The Dow Chemical Company

Nufarm Australia Ltd.

FMC Corporation

Bayer CropScience AG

Adama Agriculture Solutions Ltd.

Tata Chemicals Ltd.

Valent BioScience Corporation

Shanghai Xinyi Industry Co. Ltd

Report Scope:

In this report, the Global Plant Hormones Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

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Plant Hormones Market, By Type:

Auxins

Cytokinin

Ethylene

Gibberellins

Other

Plant Hormones Market, By Formulation:

Solution

Granules

Wet Powders

Others

Plant Hormones Market, By Function:

Growth Promoters

Growth Inhibitors

Plant Hormones Market, By Application:

Fruits & Vegetables

Cereals & Pulses

Oilseeds & Grains

Other

Plant Hormones Market, By Region:

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North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

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Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Plant Hormones Market.

Available Customizations:

Global Plant Hormones market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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