

Global Bioplastics in Agribusiness Market Size Study by Type (Aliphatic Polyesters, Cellulose-Based Bioplastics, Organic Polyethylene, Protein-Based Bioplastics, Starch-Based Bioplastics), End-of-Life (Biodegradable, Compostable, Degradable), Application (Greenhouses, Irrigation, Mulch, Packaging, Silage Storage, Tunnels) and Regional Forecasts 2024-2032

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Abstracts

Global Bioplastics in Agribusiness Market is valued at approximately USD 2.48 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 15.70% over the forecast period 2024-2032. Bioplastics in agribusiness encompass the development, production, and sale of biodegradable and bio-based polymers used in various agricultural applications. These include biodegradable mulch films, planting containers, greenhouse materials, and controlled-release fertilizers. The growing implementation of environmental regulations and increasing government policies against plastic waste significantly drive the bioplastics market in agribusiness. Technological advancements and innovations in bioplastic materials enable more efficient and cost-effective production, contributing to market growth. The rising need for high-efficiency materials to enhance crop yield and simplify farming practices is influencing market growth.

However, bioplastics may perform inconsistently in different environmental conditions, affecting their reliability and adoption in the market. Bioplastics often have higher costs than conventional plastics, challenging market penetration. Nevertheless, developing new and improved bioplastic formulations that offer enhanced durability and versatility has created significant potential for market growth. The growing focus on sustainable

agricultural practices is also generating growth potential in the market space.

Carbohydrates are prominent excipients used in pharmaceutical formulations for various purposes, including bulking agents, fillers, and stabilizers, and to improve the shelf life of biopharmaceuticals. Dextrose is a simple sugar extracted from corn and is widely used as an energy source in many biological systems. In the context of biopharmaceutical excipients, dextrose serves multiple purposes. It acts as a tonicity-adjusting agent, isotonicity contributor, and a carbohydrate source in parenteral nutrition. Starch is a polysaccharide extracted from various sources, such as corn, potatoes, and rice. It is commonly used in pharmaceutical formulations as a binder, disintegrant, and filler. The biodegradability and non-toxic nature of starch make it a favorable choice for oral drug delivery systems. Sucrose is a disaccharide constituted of glucose and fructose. In the pharmaceutical industry, sucrose is used as a bulking agent, sweetener, and stabilizer. Its inclusion in lyophilized (freeze-dried) products, particularly vaccines and biologics, is crucial as it helps preserve the structure of proteins and other biological molecules during the drying process. Polyols are critical in biopharmaceuticals where moisture control is essential. Mannitol is a polyhydric alcohol that is frequently included in pharmaceutical products as a bulking agent and diluent. Its particular merit lies in its inert nature, which renders it suitable for use where minimal interactions with active pharmaceutical ingredients (APIs) are desired. Sorbitol is another widely used polyol excipient, appreciated for its sweetening properties and humectant capabilities. It plays various roles in pharmaceutical formulations, including acting as a non-cariogenic sweetener for oral liquid medications and chewable tablets and a plasticizer and stabilizer in gels and films. Solubilizers and surfactants play a major role in increasing the solubility of APIs and in forming stable emulsions. Esters are a category of excipients that serve as effective solubilizers by enhancing the solubility of poorly soluble drugs. These chemical compounds form through the reaction between an acid and an alcohol. Esters in the biopharmaceutical sector are often derived from fatty acids and are utilized for their emulsifying, lubricating, and solubilizing abilities. Triglycerides, which are composed of glycerol esterified with three fatty acid chains, represent another essential class of solubilizers and surfactants. They are widely utilized as safe and inert carriers for lipophilic drugs in oral and injectable formulations. Specialty excipients are developed to meet specific needs in drug formulations. They include products such as cryoprotectants, sustained-release matrices, enteric coating systems, and super disintegrants.

The key regions considered for the global Bioplastics in Agribusiness Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is a dominating region in the Bioplastics in Agribusiness Market in terms

of revenue. The market growth in the region is being attributed to factors including growing awareness of environmental issues, leading to a more significant demand for sustainable products, including bioplastics in agriculture for uses such as biodegradable mulch films. Whereas, the market in Asia Pacific is anticipated to grow at the fastest rate over the forecast period fueled by rapidly developing market for bioplastics in agribusiness. APAC countries have a significant agricultural footprint, driving concerted efforts to address plastic waste in agriculture through bioplastics.

Major market players included in this report are:

BASF SE

Biome Bioplastics Limited.

NatureWorks LLC by Cargill, Incorporated

Danimer Scientific

Eastman Chemical Company

FKuR Kunststoff GmbH

Kuraray Co., Ltd.

Mitsubishi Chemical Group Corporation

Novamont S.p.A. by Versalis SpA

TotalEnergies Corbion

The detailed segments and sub-segments of the market are explained below:

By Type:

Aliphatic Polyesters

Cellulose-Based Bioplastics

Organic Polyethylene

Protein-Based Bioplastics

Starch-Based Bioplastics

By End-of-Life:

Biodegradable

Compostable

Degradable

By Application:

Greenhouses

Irrigation

Mulch

Packaging

Silage Storage

Tunnels

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of 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 competitive structure of the market.

Demand side and supply side analysis of the market.

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