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Global Plant-based Excipients Market Size study, by Chemical Nature (Carbohydrates, Proteins, Polymers, Minerals), Application, Function (Binders & Diluents), and Regional Forecasts 2022-2032

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Abstracts

Global Plant-based Excipients Market is valued approximately at USD 1.86 billion in 2023 and is anticipated to grow with a moderate yet steady growth rate of more than 4.28% over the forecast period 2024-2032. In the evolving landscape of pharmaceutical formulations, plant-based excipients have carved out a compelling niche by aligning with rising consumer demand for cleaner, more sustainable ingredients. These excipients, derived from natural sources like corn, cellulose, starch, and guar gum, play critical roles in drug formulation—serving as carriers, stabilizers, binders, and diluents. As the healthcare sector moves away from synthetic additives toward biocompatible alternatives, plant-based excipients are becoming indispensable due to their non-toxic nature, regulatory approval advantage, and broad functional versatility across drug delivery systems.

The shift toward natural and bio-derived formulations is being amplified by stringent regulatory frameworks, environmental concerns, and the surge in vegan and vegetarian lifestyles. Moreover, pharmaceutical manufacturers are capitalizing on this trend to strengthen their “green chemistry” credentials and enhance market appeal. These excipients are being adopted in both conventional and advanced dosage forms—from tablets and capsules to topical and controlled-release formulations. With increasing R&D activity, new plant-based polymer systems are being engineered to achieve improved bioavailability and controlled-release profiles, further enriching the market’s technological pipeline.

While the market is gaining momentum, it is not without its complexities. The variability

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in plant-derived raw material quality and seasonal dependency often pose challenges to consistency in formulation performance. Additionally, achieving scalability while maintaining compliance with international pharmacopeia standards requires considerable investment in processing infrastructure and quality control mechanisms. Nonetheless, several innovators are tackling these barriers head-on by forming strategic partnerships and developing proprietary purification techniques to stabilize supply chains and ensure pharmaceutical-grade purity and consistency.

Investments are surging into the exploration of novel plant-based sources that offer multifunctionality, better solubility, and compatibility with a wide spectrum of active pharmaceutical ingredients (APIs). Simultaneously, the functional categorization of excipients is expanding, with significant innovation focused on binders and diluents due to their critical role in solid oral dosage forms. These functions are pivotal not only in enhancing compressibility and stability but also in ensuring uniform distribution and delivery of APIs. As such, formulators are increasingly leaning toward excipients that offer multifunctional benefits, supporting both formulation efficiency and patient compliance.

Regionally, North America dominates the plant-based excipients market owing to well-established pharmaceutical manufacturing hubs and progressive regulatory policies promoting natural ingredient adoption. Europe follows closely, driven by rising clean-label demands, robust research infrastructure, and supportive government initiatives around sustainable production. The Asia Pacific region is poised to experience the highest growth rate, spurred by increasing generic drug manufacturing, cost-effective raw material availability, and expanding healthcare infrastructure in emerging economies such as India and China. Latin America and the Middle East & Africa, while currently niche, are gaining traction through international collaborations and rising public-private investments in pharmaceutical modernization.

Major market player included in this report are:

Dow Inc.

BASF SE

Roquette Fr?res

Ashland Inc.

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Evonik Industries AG

Ingredion Incorporated

Cargill, Incorporated

Archer Daniels Midland Company (ADM)

DuPont de Nemours, Inc.

Kerry Group plc

Associated British Foods plc

DFE Pharma

JRS Pharma GmbH & Co. KG

MEGGLE GmbH & Co. KG

Corel Pharma Chem

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

By Chemical Nature

Carbohydrates

Proteins

Polymers

Minerals

By Application

(Segment specific details to be provided in the full report)

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By Function

- Binders
- Diluents

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- Rest of Europe

Asia Pacific

- China
- India

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- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

Middle East & Africa

- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

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.

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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.

Companies Mentioned

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