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Global Bio-based Calcium D-Pantothenate Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Bio-based Calcium D-Pantothenate market size was valued at US$ 209 million in 2025 and is forecast to a readjusted size of US$ 390 million by 2032 with a CAGR of 9.0% during review period.

In 2025, global production of bio-based calcium D-pantothenate was approximately 26,000 tonnes, with an average global market price of around $7,800 per tonne. That year, total global production capacity for the product reached approximately 43,000 tonnes, and the industry's average gross profit margin stood at about 25%. Bio-based calcium D-pantothenate is a Vitamin B5 product derived from renewable carbon sources—such as glucose, sucrose, molasses, or starch hydrolysates—through microbial fermentation followed by chemical salt formation. Chemically, it is the calcium salt of biologically active D-pantothenic acid, typically represented by the molecular formula C??H??CaN?O??. Due to the limited stability and processing suitability of free pantothenic acid, it is commonly marketed as a calcium D-pantothenate powder or granule for use in foods, dietary supplements, pharmaceuticals, and animal feed. D-pantothenic acid is a crucial component of Coenzyme A and acyl carrier proteins, playing a vital role in the metabolism of fats, carbohydrates, and proteins; commercial calcium D-pantothenate generally exhibits excellent water solubility, storage stability, and blending characteristics. The term "bio-based" here primarily indicates that the carbon backbone of the pantothenic acid is derived from renewable raw materials via fermentation; it does not imply that the product is biodegradable, nor should it be confused with the biologically inactive L-form or DL-form of calcium pantothenate.

The upstream segment of the bio-based calcium D-pantothenate value chain primarily encompasses raw materials such as corn starch sugars, glucose, sugarcane molasses,

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and other fermentable carbon sources, alongside ?-alanine, pantoic acid precursors, engineered microbial strains, culture media, enzyme preparations, and fermentation equipment. Modern production typically employs metabolic engineering to modify industrial microorganisms—such as *Escherichia coli* or *Corynebacterium glutamicum*—to enhance pantothenic acid biosynthetic pathways, thereby converting renewable sugar sources into D-pantothenic acid or fermentation broth intermediates. Core upstream competitiveness centers on strain yield, fermentation concentration, sugar conversion efficiency, impurity control, and the stability of raw material supplies; factors such as carbon source prices, the consumption of nitrogen sources and nutrient salts, and aseptic control during fermentation directly impact production costs. For food- and feed-grade products, upstream raw materials must also meet requirements regarding traceability, non-GMO declarations, allergen status, and relevant regulatory standards. The midstream segment consists of vitamin manufacturers, fermentation companies, and nutritional ingredient suppliers responsible for processes including seed culture, aerobic fermentation, cell separation, decolorization and desalting, concentration and purification, as well as salt formation (reacting D-pantothenic acid with a calcium source), crystallization, drying, and sieving. Depending on the intended application, it can be further processed into high-purity D-calcium pantothenate powder, granules, spray-dried products, and premixes. Key technical challenges lie in controlling the content of D-isomers, residual organic acids, inorganic salts, moisture, and color, while ensuring stability during long-term storage and the feed pelleting process. Animal nutrition represents one of the largest downstream applications for bio-based D-calcium pantothenate; it is commonly added to vitamin premixes, compound feeds, and pet foods to support energy metabolism, growth, skin health, and feed utilization. The European Union has authorized D-calcium pantothenate as a nutritional feed additive for various animal species. In the food and dietary supplement sectors, it is primarily used in tablets, capsules, beverages, breakfast cereals, and fortified foods, while the pharmaceutical sector utilizes it in vitamin preparations, compound nutritional products, and specific medicinal formulations. Although the personal care industry predominantly uses its derivative, D-panthenol, D-calcium pantothenate is also incorporated into certain "nutricosmetic" and functional formulations. Future market growth will be driven by the expansion of the global feed industry, the premiumization of pet nutrition, the demand for food fortification, and cost reductions in fermentation-based vitamin production; meanwhile, industry competition will continue to center on strain efficiency, product purity, fermentation costs, regulatory registration, and the ability to ensure stable global supply.

Calcium D-pantothenate is a key commercial form of Vitamin B5, widely used in premixes for livestock, aquaculture, and pet feed to support energy metabolism, growth,

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and feed utilization. As the global intensive livestock, aquaculture, and pet food industries continue to expand, there remains steady demand for vitamin ingredients that offer formulation stability, ease of blending, and high bioavailability.

Beyond feed-grade applications, Calcium D-pantothenate is used in breakfast cereals, beverages, tablets, capsules, syrups, and multivitamin formulations. With growing consumer interest in energy metabolism, comprehensive nutrition, and functional foods, demand is expected to rise for food- and pharmaceutical-grade products, as well as those meeting specific standards such as vegan, Halal, Kosher, and allergen-free certifications.

The competitiveness of bio-based Calcium D-pantothenate hinges on the performance of engineered strains, sugar conversion rates, the cost of key intermediates (such as ?-alanine), and the efficiency of downstream processes like separation, desalting, and crystallization. Moving forward, companies are likely to employ metabolic engineering to boost D-pantothenate yields and fermentation concentrations. They will also seek to strengthen integrated production chains—linking glucose to ?-alanine (or pantothenate intermediates) and finally to Calcium D-pantothenate—to minimize reliance on external intermediates and mitigate the impact of price volatility. Regulatory bodies continue to review applications for the use of engineered *E. coli* to produce Calcium D-pantothenate as a nutritional additive for all animal species; this underscores that strain safety, residue control, and production consistency will remain critical focal points for industry technology and market access.

Report Scope

This report is a detailed and comprehensive analysis for global Bio-based Calcium D-Pantothenate market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Bio-based Calcium D-Pantothenate market size and forecasts, in consumption

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value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Bio-based Calcium D-Pantothenate market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Bio-based Calcium D-Pantothenate market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Bio-based Calcium D-Pantothenate market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Bio-based Calcium D-Pantothenate

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Bio-based Calcium D-Pantothenate market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BASF, Alfa Chemistry, Anhui Huaheng Biotechnology Co.,Ltd., Yifan Pharmaceutical, Zhejiang Hangzhou Xinfu Pharma, Shandong Hwatson Biochem, Xinfa Pharmaceutical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Bio-based Calcium D-Pantothenate market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and

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value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Purity:98%-99%

Purity:>99%

Market segment by Production Technology Route

Fermentation-Chemical Salt Formation

Bio-based Intermediate Coupling

Enzyme-catalyzed Synthesis

Others

Market segment by Renewable Raw Material Source

Sugar-based Calcium D-pantothenate

Starch-based Calcium D-pantothenate

Lignocellulose-based Calcium D-pantothenate

Others

Market segment by Physical Form

Powder-form Calcium D-pantothenate

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Granular Calcium D-pantothenate

Microencapsulated or Coated Calcium D-pantothenate

Market segment by Application

Feed

Pharmaceutical

Cosmetics

Food Additives

Others

Major players covered

BASF

Alfa Chemistry

Anhui Huaheng Biotechnology Co.,Ltd.

Yifan Pharmaceutical

Zhejiang Hangzhou Xinfu Pharma

Shandong Hwatson Biochem

Xinfa Pharmaceutical

Market segment by region, regional analysis covers

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North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Bio-based Calcium D-Pantothenate product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bio-based Calcium D-Pantothenate, with price, sales quantity, revenue, and global market share of Bio-based Calcium D-Pantothenate from 2021 to 2026.

Chapter 3, the Bio-based Calcium D-Pantothenate competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bio-based Calcium D-Pantothenate breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Bio-based Calcium D-Pantothenate market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

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Chapter 13, the key raw materials and key suppliers, and industry chain of Bio-based Calcium D-Pantothenate.

Chapter 14 and 15, to describe Bio-based Calcium D-Pantothenate sales channel, distributors, customers, research findings and conclusion.

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