

Global Plant-Derived Chitosan 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 Plant-Derived Chitosan market size was valued at US\$ 239 million in 2025 and is forecast to a readjusted size of US\$ 357 million by 2032 with a CAGR of 6.0% during review period.

Plant-derived chitosan typically refers to non-animal-derived chitosan distinguished from that sourced from crustaceans such as shrimp and crabs and is frequently marketed as plant-based, vegetarian, or non-crustacean chitosan. Strictly speaking, higher plants themselves are not the primary natural source of chitosan; rather, most commercial products are derived from the chitin found within the cell walls of fungi such as mushrooms, *Aspergillus*, and *Mucor* which is subsequently converted into chitosan through a deacetylation process. Consequently, the more technically accurate terminology would be 'fungal-derived chitosan' or 'non-animal-derived chitosan.' This class of materials is characterized by its biodegradability, biocompatibility, low allergenicity, and suitability for vegetarian, Halal, and Kosher dietary standards. It finds applications across various sectors, including food preservation, dietary supplements, cosmetics, pharmaceutical excipients, agricultural biostimulants, wound dressings, and eco-friendly adsorbent materials.

The upstream segment of the plant-derived chitosan industry chain primarily encompasses raw materials for fungal fermentation such as mushrooms, fungal mycelia, *Aspergillus*, and *Mucor* as well as glucose, corn steep liquor, nitrogen sources, acid-base reagents, deacetylation aids, and extraction equipment. The midstream segment involves the cultivation of fungal biomass (or the collection of mushroom by-products), chitin extraction, deacetylation, decolorization and deproteinization, purification, drying, pulverization, and grading; this process yields non-animal-derived

chitosan products varying in molecular weight, degree of deacetylation, viscosity, and purity. The downstream segment focuses on applications in food preservation, dietary supplements, cosmetics, agricultural biostimulants, pharmaceutical excipients, wound dressings, water treatment, and environmental adsorption. Compared to traditional chitosan derived from shrimp and crab shells, plant-derived (or fungal-derived) chitosan offers distinct advantages?namely, its non-animal origin, low allergenicity, batch-to-batch consistency, sustainability, and suitability for vegetarian and Halal diets?though it entails higher costs regarding raw materials and fermentation processes. The gross profit margin for plant-derived chitosan stands at approximately 43%.

In 2025, the average price of plant-derived chitosan is projected to reach \$80,000 per ton, with a sales volume of 2,900 tons and a total production capacity of 4,142 tons.

More precisely termed fungal-derived (or non-animal-derived) chitosan, plant-derived chitosan represents a premium alternative to traditional chitosan sourced from shrimp and crab shells. Driven by increasing demand across the food, nutraceutical, cosmetic, agricultural, and pharmaceutical sectors for ingredients that are vegetarian-friendly, low-allergen, traceable, sustainable, and 'clean label,' plant-derived chitosan possesses distinct competitive advantages. It is particularly well-suited for applications such as vegetarian capsules, functional foods, film-forming and antimicrobial agents in cosmetics, agricultural biostimulants, and medical materials. However, the product faces limitations stemming from the high cost of fermentation or fungal raw materials, limited production capacity at scale, a higher price point compared to traditional chitosan, and the fact that downstream market awareness remains in its nascent stages; consequently, it is unlikely to fully displace marine-derived chitosan in the short term. Overall, while the market for plant-derived chitosan remains relatively small in scale, it is characterized by rapid growth, high unit prices, and robust gross margins, positioning it as a pivotal sub-segment driving the chitosan industry's evolution toward non-animal-derived, high-purity, and functionally enhanced products.

This report is a detailed and comprehensive analysis for global Plant-Derived Chitosan 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 Plant-Derived Chitosan market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Plant-Derived Chitosan market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Plant-Derived Chitosan 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 Plant-Derived Chitosan 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 Plant-Derived Chitosan

- 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 Plant-Derived Chitosan 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 ChitoLytic, KitoZyme, Qingdao Chibio Biotech, Handary, Well Shine Bio, MarkNature, Chitosanlab Vegan, Qingdao Yuda Century Economy And Trade, Mycodev Group, Chinova Bioworks, etc.

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

Market Segmentation

Plant-Derived Chitosan 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 value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Low Degree of Deacetylation (70%?80%)

Medium Degree of Deacetylation (80%?90%)

High Degree of Deacetylation (90%?95%)

Ultra-High Degree of Deacetylation (?95%)

Market segment by Grade

Industrial Grade

Food Grade

Cosmetic Grade

Pharmaceutical Grade

Market segment by Particle Size

Coarse Powder

Fine Powder

Ultrafine Powder

Market segment by Application

Food Industry

Biopharmaceutical Industry

Agriculture

Others

Major players covered

ChitoLytic

KitoZyme

Qingdao Chibio Biotech

Handary

Well Shine Bio

MarkNature

Chitosanlab Vegan

Qingdao Yuda Century Economy And Trade

Mycodev Group

Chinova Bioworks

Plater Bio

RICOM

Market segment by region, regional analysis covers

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Plant-Derived Chitosan product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Plant-Derived Chitosan, with price, sales quantity, revenue, and global market share of Plant-Derived Chitosan from 2021 to 2026.

Chapter 3, the Plant-Derived Chitosan competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Plant-Derived Chitosan 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 Plant-Derived Chitosan 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.

Chapter 13, the key raw materials and key suppliers, and industry chain of Plant-Derived Chitosan.

Chapter 14 and 15, to describe Plant-Derived Chitosan sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Plant-Derived Chitosan Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Low Degree of Deacetylation (70%?80%)

1.3.3 Medium Degree of Deacetylation (80%?90%)

1.3.4 High Degree of Deacetylation (90%?95%)

1.3.5 Ultra-High Degree of Deacetylation (?95%)

1.4 Market Analysis by Grade

1.4.1 Overview: Global Plant-Derived Chitosan Consumption Value by Grade: 2021 Versus 2025 Versus 2032

1.4.2 Industrial Grade

1.4.3 Food Grade

1.4.4 Cosmetic Grade

1.4.5 Pharmaceutical Grade

1.5 Market Analysis by Particle Size

1.5.1 Overview: Global Plant-Derived Chitosan Consumption Value by Particle Size: 2021 Versus 2025 Versus 2032

1.5.2 Coarse Powder

1.5.3 Fine Powder

1.5.4 Ultrafine Powder

1.6 Market Analysis by Application

1.6.1 Overview: Global Plant-Derived Chitosan Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Food Industry

1.6.3 Biopharmaceutical Industry

1.6.4 Agriculture

1.6.5 Others

1.7 Global Plant-Derived Chitosan Market Size & Forecast

1.7.1 Global Plant-Derived Chitosan Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Plant-Derived Chitosan Sales Quantity (2021-2032)

1.7.3 Global Plant-Derived Chitosan Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 ChitoLytic

2.1.1 ChitoLytic Details

2.1.2 ChitoLytic Major Business

2.1.3 ChitoLytic Plant-Derived Chitosan Product and Services

2.1.4 ChitoLytic Plant-Derived Chitosan Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 ChitoLytic Recent Developments/Updates

2.2 KitoZyme

2.2.1 KitoZyme Details

2.2.2 KitoZyme Major Business

2.2.3 KitoZyme Plant-Derived Chitosan Product and Services

2.2.4 KitoZyme Plant-Derived Chitosan Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 KitoZyme Recent Developments/Updates

2.3 Qingdao Chibio Biotech

2.3.1 Qingdao Chibio Biotech Details

2.3.2 Qingdao Chibio Biotech Major Business

2.3.3 Qingdao Chibio Biotech Plant-Derived Chitosan Product and Services

2.3.4 Qingdao Chibio Biotech Plant-Derived Chitosan Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Qingdao Chibio Biotech Recent Developments/Updates

2.4 Handary

2.4.1 Handary Details

2.4.2 Handary Major Business

2.4.3 Handary Plant-Derived Chitosan Product and Services

2.4.4 Handary Plant-Derived Chitosan Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Handary Recent Developments/Updates

2.5 Well Shine Bio

2.5.1 Well Shine Bio Details

2.5.2 Well Shine Bio Major Business

2.5.3 Well Shine Bio Plant-Derived Chitosan Product and Services

2.5.4 Well Shine Bio Plant-Derived Chitosan Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Well Shine Bio Recent Developments/Updates

2.6 MarkNature

2.6.1 MarkNature Details

2.6.2 MarkNature Major Business

- 2.6.3 MarkNature Plant-Derived Chitosan Product and Services
- 2.6.4 MarkNature Plant-Derived Chitosan Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 MarkNature Recent Developments/Updates
- 2.7 Chitosanlab Vegan
 - 2.7.1 Chitosanlab Vegan Details
 - 2.7.2 Chitosanlab Vegan Major Business
 - 2.7.3 Chitosanlab Vegan Plant-Derived Chitosan Product and Services
 - 2.7.4 Chitosanlab Vegan Plant-Derived Chitosan Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Chitosanlab Vegan Recent Developments/Updates
- 2.8 Qingdao Yuda Century Economy And Trade
 - 2.8.1 Qingdao Yuda Century Economy And Trade Details
 - 2.8.2 Qingdao Yuda Century Economy And Trade Major Business
 - 2.8.3 Qingdao Yuda Century Economy And Trade Plant-Derived Chitosan Product and Services
 - 2.8.4 Qingdao Yuda Century Economy And Trade Plant-Derived Chitosan Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Qingdao Yuda Century Economy And Trade Recent Developments/Updates
- 2.9 Mycodev Group
 - 2.9.1 Mycodev Group Details
 - 2.9.2 Mycodev Group Major Business
 - 2.9.3 Mycodev Group Plant-Derived Chitosan Product and Services
 - 2.9.4 Mycodev Group Plant-Derived Chitosan Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Mycodev Group Recent Developments/Updates
- 2.10 Chinova Bioworks
 - 2.10.1 Chinova Bioworks Details
 - 2.10.2 Chinova Bioworks Major Business
 - 2.10.3 Chinova Bioworks Plant-Derived Chitosan Product and Services
 - 2.10.4 Chinova Bioworks Plant-Derived Chitosan Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Chinova Bioworks Recent Developments/Updates
- 2.11 Plater Bio
 - 2.11.1 Plater Bio Details
 - 2.11.2 Plater Bio Major Business
 - 2.11.3 Plater Bio Plant-Derived Chitosan Product and Services
 - 2.11.4 Plater Bio Plant-Derived Chitosan Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.11.5 Plater Bio Recent Developments/Updates
- 2.12 RICOM
 - 2.12.1 RICOM Details
 - 2.12.2 RICOM Major Business
 - 2.12.3 RICOM Plant-Derived Chitosan Product and Services
 - 2.12.4 RICOM Plant-Derived Chitosan Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 RICOM Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: PLANT-DERIVED CHITOSAN BY MANUFACTURER

- 3.1 Global Plant-Derived Chitosan Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Plant-Derived Chitosan Revenue by Manufacturer (2021-2026)
- 3.3 Global Plant-Derived Chitosan Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Plant-Derived Chitosan by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Plant-Derived Chitosan Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Plant-Derived Chitosan Manufacturer Market Share in 2025
- 3.5 Plant-Derived Chitosan Market: Overall Company Footprint Analysis
 - 3.5.1 Plant-Derived Chitosan Market: Region Footprint
 - 3.5.2 Plant-Derived Chitosan Market: Company Product Type Footprint
 - 3.5.3 Plant-Derived Chitosan Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Plant-Derived Chitosan Market Size by Region
 - 4.1.1 Global Plant-Derived Chitosan Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Plant-Derived Chitosan Consumption Value by Region (2021-2032)
 - 4.1.3 Global Plant-Derived Chitosan Average Price by Region (2021-2032)
- 4.2 North America Plant-Derived Chitosan Consumption Value (2021-2032)
- 4.3 Europe Plant-Derived Chitosan Consumption Value (2021-2032)
- 4.4 Asia-Pacific Plant-Derived Chitosan Consumption Value (2021-2032)
- 4.5 South America Plant-Derived Chitosan Consumption Value (2021-2032)
- 4.6 Middle East & Africa Plant-Derived Chitosan Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Plant-Derived Chitosan Sales Quantity by Type (2021-2032)
- 5.2 Global Plant-Derived Chitosan Consumption Value by Type (2021-2032)
- 5.3 Global Plant-Derived Chitosan Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Plant-Derived Chitosan Sales Quantity by Application (2021-2032)
- 6.2 Global Plant-Derived Chitosan Consumption Value by Application (2021-2032)
- 6.3 Global Plant-Derived Chitosan Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Plant-Derived Chitosan Sales Quantity by Type (2021-2032)
- 7.2 North America Plant-Derived Chitosan Sales Quantity by Application (2021-2032)
- 7.3 North America Plant-Derived Chitosan Market Size by Country
 - 7.3.1 North America Plant-Derived Chitosan Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Plant-Derived Chitosan Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Plant-Derived Chitosan Sales Quantity by Type (2021-2032)
- 8.2 Europe Plant-Derived Chitosan Sales Quantity by Application (2021-2032)
- 8.3 Europe Plant-Derived Chitosan Market Size by Country
 - 8.3.1 Europe Plant-Derived Chitosan Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Plant-Derived Chitosan Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Plant-Derived Chitosan Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Plant-Derived Chitosan Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Plant-Derived Chitosan Market Size by Region
 - 9.3.1 Asia-Pacific Plant-Derived Chitosan Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Plant-Derived Chitosan Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Plant-Derived Chitosan Sales Quantity by Type (2021-2032)
- 10.2 South America Plant-Derived Chitosan Sales Quantity by Application (2021-2032)
- 10.3 South America Plant-Derived Chitosan Market Size by Country
 - 10.3.1 South America Plant-Derived Chitosan Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Plant-Derived Chitosan Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Plant-Derived Chitosan Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Plant-Derived Chitosan Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Plant-Derived Chitosan Market Size by Country
 - 11.3.1 Middle East & Africa Plant-Derived Chitosan Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Plant-Derived Chitosan Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Plant-Derived Chitosan Market Drivers
- 12.2 Plant-Derived Chitosan Market Restraints
- 12.3 Plant-Derived Chitosan Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Plant-Derived Chitosan and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Plant-Derived Chitosan
- 13.3 Plant-Derived Chitosan Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Plant-Derived Chitosan Typical Distributors
- 14.3 Plant-Derived Chitosan Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Plant-Derived Chitosan Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Plant-Derived Chitosan Consumption Value by Grade, (USD Million), 2021 & 2025 & 2032

Table 3. Global Plant-Derived Chitosan Consumption Value by Particle Size, (USD Million), 2021 & 2025 & 2032

Table 4. Global Plant-Derived Chitosan Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. ChitoLytic Basic Information, Manufacturing Base and Competitors

Table 6. ChitoLytic Major Business

Table 7. ChitoLytic Plant-Derived Chitosan Product and Services

Table 8. ChitoLytic Plant-Derived Chitosan Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. ChitoLytic Recent Developments/Updates

Table 10. KitoZyme Basic Information, Manufacturing Base and Competitors

Table 11. KitoZyme Major Business

Table 12. KitoZyme Plant-Derived Chitosan Product and Services

Table 13. KitoZyme Plant-Derived Chitosan Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. KitoZyme Recent Developments/Updates

Table 15. Qingdao Chibio Biotech Basic Information, Manufacturing Base and Competitors

Table 16. Qingdao Chibio Biotech Major Business

Table 17. Qingdao Chibio Biotech Plant-Derived Chitosan Product and Services

Table 18. Qingdao Chibio Biotech Plant-Derived Chitosan Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Qingdao Chibio Biotech Recent Developments/Updates

Table 20. Handary Basic Information, Manufacturing Base and Competitors

Table 21. Handary Major Business

Table 22. Handary Plant-Derived Chitosan Product and Services

Table 23. Handary Plant-Derived Chitosan Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Handary Recent Developments/Updates

Table 25. Well Shine Bio Basic Information, Manufacturing Base and Competitors

Table 26. Well Shine Bio Major Business
Table 27. Well Shine Bio Plant-Derived Chitosan Product and Services
Table 28. Well Shine Bio Plant-Derived Chitosan Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 29. Well Shine Bio Recent Developments/Updates
Table 30. MarkNature Basic Information, Manufacturing Base and Competitors
Table 31. MarkNature Major Business
Table 32. MarkNature Plant-Derived Chitosan Product and Services
Table 33. MarkNature Plant-Derived Chitosan Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 34. MarkNature Recent Developments/Updates
Table 35. Chitosanlab Vegan Basic Information, Manufacturing Base and Competitors
Table 36. Chitosanlab Vegan Major Business
Table 37. Chitosanlab Vegan Plant-Derived Chitosan Product and Services
Table 38. Chitosanlab Vegan Plant-Derived Chitosan Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 39. Chitosanlab Vegan Recent Developments/Updates
Table 40. Qingdao Yuda Century Economy And Trade Basic Information, Manufacturing Base and Competitors
Table 41. Qingdao Yuda Century Economy And Trade Major Business
Table 42. Qingdao Yuda Century Economy And Trade Plant-Derived Chitosan Product and Services
Table 43. Qingdao Yuda Century Economy And Trade Plant-Derived Chitosan Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 44. Qingdao Yuda Century Economy And Trade Recent Developments/Updates
Table 45. Mycodev Group Basic Information, Manufacturing Base and Competitors
Table 46. Mycodev Group Major Business
Table 47. Mycodev Group Plant-Derived Chitosan Product and Services
Table 48. Mycodev Group Plant-Derived Chitosan Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 49. Mycodev Group Recent Developments/Updates
Table 50. Chinova Bioworks Basic Information, Manufacturing Base and Competitors
Table 51. Chinova Bioworks Major Business
Table 52. Chinova Bioworks Plant-Derived Chitosan Product and Services
Table 53. Chinova Bioworks Plant-Derived Chitosan Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 54. Chinova Bioworks Recent Developments/Updates
Table 55. Plater Bio Basic Information, Manufacturing Base and Competitors

Table 56. Plater Bio Major Business

Table 57. Plater Bio Plant-Derived Chitosan Product and Services

Table 58. Plater Bio Plant-Derived Chitosan Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Plater Bio Recent Developments/Updates

Table 60. RICOM Basic Information, Manufacturing Base and Competitors

Table 61. RICOM Major Business

Table 62. RICOM Plant-Derived Chitosan Product and Services

Table 63. RICOM Plant-Derived Chitosan Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. RICOM Recent Developments/Updates

Table 65. Global Plant-Derived Chitosan Sales Quantity by Manufacturer (2021-2026) & (Tons)

Table 66. Global Plant-Derived Chitosan Revenue by Manufacturer (2021-2026) & (USD Million)

Table 67. Global Plant-Derived Chitosan Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 68. Market Position of Manufacturers in Plant-Derived Chitosan, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and Plant-Derived Chitosan Production Site of Key Manufacturer

Table 70. Plant-Derived Chitosan Market: Company Product Type Footprint

Table 71. Plant-Derived Chitosan Market: Company Product Application Footprint

Table 72. Plant-Derived Chitosan New Market Entrants and Barriers to Market Entry

Table 73. Plant-Derived Chitosan Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global Plant-Derived Chitosan Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global Plant-Derived Chitosan Sales Quantity by Region (2021-2026) & (Tons)

Table 76. Global Plant-Derived Chitosan Sales Quantity by Region (2027-2032) & (Tons)

Table 77. Global Plant-Derived Chitosan Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global Plant-Derived Chitosan Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global Plant-Derived Chitosan Average Price by Region (2021-2026) & (US\$/Ton)

Table 80. Global Plant-Derived Chitosan Average Price by Region (2027-2032) & (US\$/Ton)

Table 81. Global Plant-Derived Chitosan Sales Quantity by Type (2021-2026) & (Tons)

Table 82. Global Plant-Derived Chitosan Sales Quantity by Type (2027-2032) & (Tons)

Table 83. Global Plant-Derived Chitosan Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global Plant-Derived Chitosan Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global Plant-Derived Chitosan Average Price by Type (2021-2026) & (US\$/Ton)

Table 86. Global Plant-Derived Chitosan Average Price by Type (2027-2032) & (US\$/Ton)

Table 87. Global Plant-Derived Chitosan Sales Quantity by Application (2021-2026) & (Tons)

Table 88. Global Plant-Derived Chitosan Sales Quantity by Application (2027-2032) & (Tons)

Table 89. Global Plant-Derived Chitosan Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global Plant-Derived Chitosan Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global Plant-Derived Chitosan Average Price by Application (2021-2026) & (US\$/Ton)

Table 92. Global Plant-Derived Chitosan Average Price by Application (2027-2032) & (US\$/Ton)

Table 93. North America Plant-Derived Chitosan Sales Quantity by Type (2021-2026) & (Tons)

Table 94. North America Plant-Derived Chitosan Sales Quantity by Type (2027-2032) & (Tons)

Table 95. North America Plant-Derived Chitosan Sales Quantity by Application (2021-2026) & (Tons)

Table 96. North America Plant-Derived Chitosan Sales Quantity by Application (2027-2032) & (Tons)

Table 97. North America Plant-Derived Chitosan Sales Quantity by Country (2021-2026) & (Tons)

Table 98. North America Plant-Derived Chitosan Sales Quantity by Country (2027-2032) & (Tons)

Table 99. North America Plant-Derived Chitosan Consumption Value by Country (2021-2026) & (USD Million)

Table 100. North America Plant-Derived Chitosan Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe Plant-Derived Chitosan Sales Quantity by Type (2021-2026) & (Tons)

Table 102. Europe Plant-Derived Chitosan Sales Quantity by Type (2027-2032) & (Tons)

Table 103. Europe Plant-Derived Chitosan Sales Quantity by Application (2021-2026) & (Tons)

Table 104. Europe Plant-Derived Chitosan Sales Quantity by Application (2027-2032) & (Tons)

Table 105. Europe Plant-Derived Chitosan Sales Quantity by Country (2021-2026) & (Tons)

Table 106. Europe Plant-Derived Chitosan Sales Quantity by Country (2027-2032) & (Tons)

Table 107. Europe Plant-Derived Chitosan Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe Plant-Derived Chitosan Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific Plant-Derived Chitosan Sales Quantity by Type (2021-2026) & (Tons)

Table 110. Asia-Pacific Plant-Derived Chitosan Sales Quantity by Type (2027-2032) & (Tons)

Table 111. Asia-Pacific Plant-Derived Chitosan Sales Quantity by Application (2021-2026) & (Tons)

Table 112. Asia-Pacific Plant-Derived Chitosan Sales Quantity by Application (2027-2032) & (Tons)

Table 113. Asia-Pacific Plant-Derived Chitosan Sales Quantity by Region (2021-2026) & (Tons)

Table 114. Asia-Pacific Plant-Derived Chitosan Sales Quantity by Region (2027-2032) & (Tons)

Table 115. Asia-Pacific Plant-Derived Chitosan Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific Plant-Derived Chitosan Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America Plant-Derived Chitosan Sales Quantity by Type (2021-2026) & (Tons)

Table 118. South America Plant-Derived Chitosan Sales Quantity by Type (2027-2032) & (Tons)

Table 119. South America Plant-Derived Chitosan Sales Quantity by Application (2021-2026) & (Tons)

Table 120. South America Plant-Derived Chitosan Sales Quantity by Application (2027-2032) & (Tons)

Table 121. South America Plant-Derived Chitosan Sales Quantity by Country

(2021-2026) & (Tons)

Table 122. South America Plant-Derived Chitosan Sales Quantity by Country

(2027-2032) & (Tons)

Table 123. South America Plant-Derived Chitosan Consumption Value by Country

(2021-2026) & (USD Million)

Table 124. South America Plant-Derived Chitosan Consumption Value by Country

(2027-2032) & (USD Million)

Table 125. Middle East & Africa Plant-Derived Chitosan Sales Quantity by Type

(2021-2026) & (Tons)

Table 126. Middle East & Africa Plant-Derived Chitosan Sales Quantity by Type

(2027-2032) & (Tons)

Table 127. Middle East & Africa Plant-Derived Chitosan Sales Quantity by Application

(2021-2026) & (Tons)

Table 128. Middle East & Africa Plant-Derived Chitosan Sales Quantity by Application

(2027-2032) & (Tons)

Table 129. Middle East & Africa Plant-Derived Chitosan Sales Quantity by Country

(2021-2026) & (Tons)

Table 130. Middle East & Africa Plant-Derived Chitosan Sales Quantity by Country

(2027-2032) & (Tons)

Table 131. Middle East & Africa Plant-Derived Chitosan Consumption Value by Country

(2021-2026) & (USD Million)

Table 132. Middle East & Africa Plant-Derived Chitosan Consumption Value by Country

(2027-2032) & (USD Million)

Table 133. Plant-Derived Chitosan Raw Material

Table 134. Key Manufacturers of Plant-Derived Chitosan Raw Materials

Table 135. Plant-Derived Chitosan Typical Distributors

Table 136. Plant-Derived Chitosan Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Plant-Derived Chitosan Picture
- Figure 2. Global Plant-Derived Chitosan Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Plant-Derived Chitosan Revenue Market Share by Type in 2025
- Figure 4. Low Degree of Deacetylation (70%-80%) Examples
- Figure 5. Medium Degree of Deacetylation (80%-90%) Examples
- Figure 6. High Degree of Deacetylation (90%-95%) Examples
- Figure 7. Ultra-High Degree of Deacetylation (>95%) Examples
- Figure 8. Global Plant-Derived Chitosan Revenue by Grade, (USD Million), 2021 & 2025 & 2032
- Figure 9. Global Plant-Derived Chitosan Revenue Market Share by Grade in 2025
- Figure 10. Industrial Grade Examples
- Figure 11. Food Grade Examples
- Figure 12. Cosmetic Grade Examples
- Figure 13. Pharmaceutical Grade Examples
- Figure 14. Global Plant-Derived Chitosan Revenue by Particle Size, (USD Million), 2021 & 2025 & 2032
- Figure 15. Global Plant-Derived Chitosan Revenue Market Share by Particle Size in 2025
- Figure 16. Coarse Powder Examples
- Figure 17. Fine Powder Examples
- Figure 18. Ultrafine Powder Examples
- Figure 19. Global Plant-Derived Chitosan Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 20. Global Plant-Derived Chitosan Revenue Market Share by Application in 2025
- Figure 21. Food Industry Examples
- Figure 22. Biopharmaceutical Industry Examples
- Figure 23. Agriculture Examples
- Figure 24. Others Examples
- Figure 25. Global Plant-Derived Chitosan Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 26. Global Plant-Derived Chitosan Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 27. Global Plant-Derived Chitosan Sales Quantity (2021-2032) & (Tons)
- Figure 28. Global Plant-Derived Chitosan Price (2021-2032) & (US\$/Ton)

Figure 29. Global Plant-Derived Chitosan Sales Quantity Market Share by Manufacturer in 2025

Figure 30. Global Plant-Derived Chitosan Revenue Market Share by Manufacturer in 2025

Figure 31. Producer Shipments of Plant-Derived Chitosan by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 32. Top 3 Plant-Derived Chitosan Manufacturer (Revenue) Market Share in 2025

Figure 33. Top 6 Plant-Derived Chitosan Manufacturer (Revenue) Market Share in 2025

Figure 34. Global Plant-Derived Chitosan Sales Quantity Market Share by Region (2021-2032)

Figure 35. Global Plant-Derived Chitosan Consumption Value Market Share by Region (2021-2032)

Figure 36. North America Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 37. Europe Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 38. Asia-Pacific Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 39. South America Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 40. Middle East & Africa Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 41. Global Plant-Derived Chitosan Sales Quantity Market Share by Type (2021-2032)

Figure 42. Global Plant-Derived Chitosan Consumption Value Market Share by Type (2021-2032)

Figure 43. Global Plant-Derived Chitosan Average Price by Type (2021-2032) & (US\$/Ton)

Figure 44. Global Plant-Derived Chitosan Sales Quantity Market Share by Application (2021-2032)

Figure 45. Global Plant-Derived Chitosan Revenue Market Share by Application (2021-2032)

Figure 46. Global Plant-Derived Chitosan Average Price by Application (2021-2032) & (US\$/Ton)

Figure 47. North America Plant-Derived Chitosan Sales Quantity Market Share by Type (2021-2032)

Figure 48. North America Plant-Derived Chitosan Sales Quantity Market Share by Application (2021-2032)

Figure 49. North America Plant-Derived Chitosan Sales Quantity Market Share by

Country (2021-2032)

Figure 50. North America Plant-Derived Chitosan Consumption Value Market Share by Country (2021-2032)

Figure 51. United States Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 52. Canada Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 53. Mexico Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 54. Europe Plant-Derived Chitosan Sales Quantity Market Share by Type (2021-2032)

Figure 55. Europe Plant-Derived Chitosan Sales Quantity Market Share by Application (2021-2032)

Figure 56. Europe Plant-Derived Chitosan Sales Quantity Market Share by Country (2021-2032)

Figure 57. Europe Plant-Derived Chitosan Consumption Value Market Share by Country (2021-2032)

Figure 58. Germany Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 59. France Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 60. United Kingdom Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 61. Russia Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 62. Italy Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 63. Asia-Pacific Plant-Derived Chitosan Sales Quantity Market Share by Type (2021-2032)

Figure 64. Asia-Pacific Plant-Derived Chitosan Sales Quantity Market Share by Application (2021-2032)

Figure 65. Asia-Pacific Plant-Derived Chitosan Sales Quantity Market Share by Region (2021-2032)

Figure 66. Asia-Pacific Plant-Derived Chitosan Consumption Value Market Share by Region (2021-2032)

Figure 67. China Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 68. Japan Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 69. South Korea Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 70. India Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 71. Southeast Asia Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 72. Australia Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 73. South America Plant-Derived Chitosan Sales Quantity Market Share by Type (2021-2032)

Figure 74. South America Plant-Derived Chitosan Sales Quantity Market Share by Application (2021-2032)

Figure 75. South America Plant-Derived Chitosan Sales Quantity Market Share by Country (2021-2032)

Figure 76. South America Plant-Derived Chitosan Consumption Value Market Share by Country (2021-2032)

Figure 77. Brazil Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 78. Argentina Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 79. Middle East & Africa Plant-Derived Chitosan Sales Quantity Market Share by Type (2021-2032)

Figure 80. Middle East & Africa Plant-Derived Chitosan Sales Quantity Market Share by Application (2021-2032)

Figure 81. Middle East & Africa Plant-Derived Chitosan Sales Quantity Market Share by Country (2021-2032)

Figure 82. Middle East & Africa Plant-Derived Chitosan Consumption Value Market Share by Country (2021-2032)

Figure 83. Turkey Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 84. Egypt Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 85. Saudi Arabia Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 86. South Africa Plant-Derived Chitosan Consumption Value (2021-2032) & (USD Million)

Figure 87. Plant-Derived Chitosan Market Drivers

Figure 88. Plant-Derived Chitosan Market Restraints

Figure 89. Plant-Derived Chitosan Market Trends

Figure 90. Porters Five Forces Analysis

Figure 91. Manufacturing Cost Structure Analysis of Plant-Derived Chitosan in 2025

Figure 92. Manufacturing Process Analysis of Plant-Derived Chitosan

Figure 93. Plant-Derived Chitosan Industrial Chain

Figure 94. Sales Channel: Direct to End-User vs Distributors

Figure 95. Direct Channel Pros & Cons

Figure 96. Indirect Channel Pros & Cons

Figure 97. Methodology

Figure 98. Research Process and Data Source

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