

# **Chitosan Market Size, Share & Trends Analysis Report By Application (Pharmaceutical, Water Treatment, Cosmetics, Biomedical, Food & Beverage), By Region, And Segment Forecasts, 2023 - 2030**

<https://marketpublishers.com/r/C50AFDB1A8FEN.html>

Date: December 2022

Pages: 126

Price: US\$ 5,950.00 (Single User License)

ID: C50AFDB1A8FEN

## **Abstracts**

This report can be delivered to the clients within 3 Business Days

### **Chitosan Market Growth & Trends**

The global chitosan market is expected to reach USD 47.06 billion by 2030, registering a CAGR of 20.1% from 2023 to 2030, as per the new report by Grand View Research, Inc. The increasing demand for naturally derived products in dietary supplements, as well as agricultural applications, is expected to have a positive impact on the market growth during the forecasted period. Additionally, abundant raw material availability and ongoing R&D activities, to broaden its application scope, are the factors expected to propel the demand for chitosan during the next few years.

Chitosan is the most abundant available bio-polymer and is obtained primarily from crustacean waste. Dried shrimp waste is the most common raw material for the synthesis of chitin, which further is deacetylated to produce chitosan. In addition, various other crustacean animals including crabs, crayfish, lobsters, and krill shells are also used to manufacture chitosan. Furthermore, Belgium-based Kitozyme has developed a new technology that uses vegetable sources to produce chitosan.

Commercially, the product is manufactured using chemical and biotechnological processes. Among these, chemical processes are currently the most widely used methods for chitosan manufacturing at an industrial scale as well as in laboratory production. The chemical process involves using strong acids and bases such as

acetone, hydrochloric acid, nitric acid, and sulfuric acid. However, hydrochloric acid, owing to its high efficiency in the removal of minerals, is used on a larger scale as compared to others by the chitosan manufacturers.

Chitosan can increase the water-holding capacity of the keratin layer; thus, its demand is expected to increase in various hair care products including setting lotions, shampoos, coloring products, and hairspray. Furthermore, the rising application scope of chitosan in manufacturing dental care products including mouthwash, toothpaste, and tooth gels is further likely to boost the market growth. Moreover, the rising demand for chitosan in manufacturing deodorants and foot powders is also expected to have a positive impact on market growth.

The demand for bio-based polymers used for domestic and industrial wastewater treatment has increased during the past few years. Additionally, rising consumer concerns regarding water purity and safety coupled with innovations in the field of water treatment are expected to have a positive impact on the market growth during the forecasted period.

### Chitosan Market Report Highlights

Food & beverage emerged as the fastest-growing application segment with a CAGR of 22.5%. Increasing demand for the product as an antimicrobial agent in food processing and its packaging is anticipated to be a key driver for the market growth during the forecast period

The cosmetics application segment will grow significantly during the forecast period, due to the increasing demand for bio-derived personal care products. This is estimated to be a key driver for the market growth

Asia Pacific region is projected to witness notable growth in the near future owing to increasing demand for bio-based ingredients in medicine manufacturing

Central & South America is the fastest-growing region with a CAGR of 23.0%. Growing demand for natural and organic ingredients from the pharmaceutical and cosmetics industry is expected to be the key reason for the industry growth during the forecast period

China accounts for the major share of the market, which is expected to offer

easy availability of raw materials for the manufacturers. Growing demand for bio-based personal care products in the region is predicted to have a positive impact on the market in the near future

The key players across all the regions are expected to focus more on product quality, increase production volumes, and lower the product cost to sustain and strengthen their presence in the market

## Contents

### **CHAPTER 1 METHODOLOGY AND SCOPE**

- 1.1 Market Segmentation & Scope
- 1.2 Market Definition
- 1.3 Information Procurement
  - 1.3.1 Purchased Database
  - 1.3.2 GVR's Internal Database
  - 1.3.3 Secondary Sources
  - 1.3.4 Third-Party Perspective
  - 1.3.5 Primary Research
- 1.4 Information Analysis
  - 1.4.1 Data Analysis Models
- 1.5 Research Scope and Assumptions

### **CHAPTER 2 EXECUTIVE SUMMARY**

- 2.1 Market Snapshot
- 2.2 Segmental Outlook

### **CHAPTER 3 CHITOSAN MARKET: MARKET VARIABLES, TRENDS & SCOPE**

- 3.1 Market Lineage Outlook
  - 3.1.1 Global Biopolymer Market Outlook
  - 3.1.2 Global Chitosan Market Outlook
- 3.2 Penetration & Growth Prospect Mapping
- 3.3 Industry Value Chain Analysis
  - 3.3.1 Raw material trends
    - 3.3.1.1 Shrimp and Crab Shell
    - 3.3.1.2 Squid pens
  - 3.3.2 Chitosan Manufacturing Trends
    - 3.3.2.1 Enzymatic Deacetylation
    - 3.3.2.2 Chemical Deacetylation
  - 3.3.3 Chitosan Production analysis
  - 3.3.4 Cost Structure Analysis
    - 3.3.4.1 Techno-Economic Sensitivity Analysis
- 3.4 Technology overview
- 3.5 Price Trend Analysis

### 3.6 Regulatory Framework

### 3.7 Market Dynamics

#### 3.7.1 Market Driver Analysis

3.7.1.1 Abundant availability of raw materials

3.7.1.2 Rising application scope in cosmetics industry

3.7.1.3 Increasing demand for pharmaceutical sector

#### 3.7.2 Market Restraint Analysis

3.7.2.1 High cost associated with the product

### 3.8 Business Environment Analysis

3.8.1 Industry Analysis - Porter's Five Forces

3.8.2 PESTEL Analysis

## **CHAPTER 4 CHITOSAN MARKET: APPLICATION ESTIMATES & TREND ANALYSIS**

4.1 Application movement analysis & market share, 2022 & 2030 (Tons) (USD Million)

4.2 Chitosan market size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

4.2.1 Chitosan market size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

4.2.2 Water treatment

4.2.2.1 Chitosan market estimates & forecasts in water treatment, 2018 - 2030 (Tons) (USD Million)

4.2.3 Pharmaceutical

4.2.3.1 Chitosan market estimates & forecasts in pharmaceutical, 2018 - 2030 (Tons) (USD Million)

4.2.4 Biomedical

4.2.4.1 Chitosan market estimates & forecasts in biomedical, 2018 - 2030 (Tons) (USD Million)

4.2.5 Cosmetics

4.2.5.1 Chitosan market estimates & forecasts in cosmetics, 2018 - 2030 (Tons) (USD Million)

4.2.6 Food & beverage

4.2.6.1 Chitosan market estimates & forecasts in food & beverage, 2018 - 2030 (Tons) (USD Million)

4.2.7 Others

4.2.7.1 Chitosan market estimates & forecasts in other, 2018 - 2030 (Tons) (USD Million)

## **CHAPTER 5 CHITOSAN MARKET: REGIONAL ESTIMATES & TREND ANALYSIS**

### 5.1 Chitosan regional movement analysis & market share, 2022 & 2030 (Tons) (USD Million)

#### 5.1.1 Global Chitosan market size & forecasts and trend analysis, by Region, 2018 - 2030 (Tons) (USD Million)

### 5.2 North America

#### 5.2.1 North America chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

##### 5.2.2 U.S.

#### 5.2.2.1 U.S. chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

##### 5.2.3 Canada

#### 5.2.3.1 Canada chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

##### 5.2.4 Mexico

#### 5.2.4.1 Mexico chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

### 5.3 Europe

#### 5.3.1 Europe chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

##### 5.3.2 Germany

#### 5.3.2.1 Germany chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

##### 5.3.3 UK

#### 5.3.3.1 Uk chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

##### 5.3.4 France

#### 5.3.4.1 France chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

##### 5.3.5 Italy

#### 5.3.5.1 italy chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

##### 5.3.6 Spain

#### 5.3.6.1 Spain chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

### 5.4 Asia Pacific

#### 5.4.1 Asia Pacific Chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

#### 5.4.2 China

5.4.2.1 China Chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

#### 5.4.3 India

5.4.3.1 India Chitosan size & forecasts and trend analysis, by type, 2018 - 2030 (Tons) (USD Million)

#### 5.4.4 Japan

5.4.4.1 Japan Chitosan size & forecasts and trend analysis, by type, 2018 - 2030 (Tons) (USD Million)

#### 5.4.5 South Korea

5.4.5.1 South Korea Chitosan size & forecasts and trend analysis, by type, 2018 - 2030 (Tons) (USD Million)

#### 5.4.6 Singapore

5.4.6.1 Singapore Chitosan size & forecasts and trend analysis, by type, 2018 - 2030 (Tons) (USD Million)

#### 5.5 Central & South America

5.5.1 Central & South America Chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

#### 5.5.2 Brazil

5.5.2.1 Brazil Chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

#### 5.6 Middle East & Africa

5.6.1 Middle East & Africa Chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

#### 5.6.2 Saudi Arabia

5.6.2.1 Saudi Arabia Chitosan size & forecasts and trend analysis, by application, 2018 - 2030 (Tons) (USD Million)

## **CHAPTER 6 COMPETITIVE LANDSCAPE**

### 6.1 Vendor Landscape

### 6.2 List of Suppliers /Distributors

### 6.3 Competitive Heat Map analysis

### 6.4 Company Market Positioning

## **CHAPTER 7 COMPANY PROFILES**

### 7.1 Qingdao Yunzhou Biochemistry Co.

#### 7.1.1 Company Overview

- 7.1.2 Product Benchmarking
- 7.2 Panvo Organics Pvt Ltd
  - 7.2.1 Company Overview
  - 7.2.2 Product Benchmarking
- 7.3 Advanced Biopolymers AS
  - 7.3.1 Company Overview
  - 7.3.2 Product Benchmarking
- 7.4 Meron
  - 7.4.1 Company Overview
  - 7.4.2 Product Benchmarking
- 7.5 Heppe Medical Chitosan GmbH
  - 7.5.1 Company Overview
  - 7.5.2 Product Benchmarking
- 7.6 KitoZyme S.A
  - 7.6.1 Company Overview
  - 7.6.2 Product Benchmarking
  - 7.6.3 Strategic Initiatives:
- 7.7 Kraeber & Co. GmbH
  - 7.7.1 Company Overview
  - 7.7.2 Product Benchmarking
- 7.8 Chitosanlab
  - 7.8.1 Company Overview
  - 7.8.2 Product Benchmarking
- 7.9 Golden-Shell Pharmaceutical
  - 7.9.1 Company Overview
  - 7.9.2 Product Benchmarking
- 7.10 PRIMEX EHF
  - 7.10.1 Company Overview
  - 7.10.2 Product Benchmarking
- 7.11 Dainichiseika Color & Chemicals Mfg. Co., Ltd.
  - 7.11.1 Company Overview
  - 7.11.2 FINANCIAL PERFORMANCE
  - 7.11.3 Product Benchmarking
- 7.12 G.T.C. Bio Corporation
  - 7.12.1 Company Overview
  - 7.12.2 Product Benchmarking
- 7.13 Marshall Marine Products
  - 7.13.1 Company Overview
  - 7.13.2 Product Benchmarking



## 7.14 SFly

7.14.1 Company Overview

7.14.2 Product Benchmarking

## 7.15 Asiamerica Group, Inc.

7.15.1 Company Overview

7.15.2 Product Benchmarking

## List Of Tables

### LIST OF TABLES

Table 1 Chitin Content In Different Organisms For Your Reference

Table 2 Assumptions For Chitosan Production From Shrimp Shell Waste Plant

Table 3 Total Capital Investment For Chitosan Production From Shrimp Shell Waste

Table 4 Annual Total Production At 100% Capacity

Table 5 Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 6 Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 7 Global Chitosan Market Volume Estimates & Forecasts, By Region, 2018 - 2030 (Tons)

Table 8 Global Chitosan Market Revenue Estimates & Forecasts, By Region, 2018 - 2030 (USD Million)

Table 9 North America Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 10 North America Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 11 U.S. Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 12 U.S. Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 13 Canada Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 14 Canada Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 15 Mexico Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 16 Mexico Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 17 Europe Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 18 Europe Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 19 Germany Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 20 Germany Chitosan Market Revenue Estimates & Forecasts, By Application,

2018 - 2030 (USD Million)

Table 21 UK Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 22 UK Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 23 France Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 24 France Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 25 Italy Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 26 Italy Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 27 Spain Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 28 Spain Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 29 Asia Pacific Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 30 Asia Pacific Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 31 China Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 32 China Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 33 India Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 34 India Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 35 Japan Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 36 Japan Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 37 South Korea Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 38 South Korea Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 39 Singapore Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 40 Singapore Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 41 Central & South America Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 42 Central & South America Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 43 Brazil Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 44 Brazil Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 45 Middle East & Africa Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 46 Middle East & Africa Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 47 Saudi Arabia Chitosan Market Volume Estimates & Forecasts, By Application, 2018 - 2030 (Tons)

Table 48 Saudi Arabia Chitosan Market Revenue Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

Table 49 Vendor Landscape

Table 50 List Of Key Suppliers & Distributors

## List Of Figures

### LIST OF FIGURES

- Fig. 1 Chitosan Market Segmentation & Scope
- Fig. 2 Information Procurement
- Fig. 3 Primary Research Pattern
- Fig. 4 Primary Research Process
- Fig. 5 Primary Research Approaches
- Fig. 6 Chitosan Market Snapshot
- Fig. 7 Market Segment Outlook, 2022 (Tons)
- Fig. 8 Chitosan market volume & revenue, 2018 - 2030 (Tons) (USD Million)
- Fig. 9 Chitosan Market: Value chain analysis
- Fig. 10 Estimated global production of chitosan
- Fig. 11 A schematic presentation of chitosan preparation from raw materials
- Fig. 12 Market dynamics
- Fig. 13 Global Cosmetics and Personal Care Sales by Segment, 2022 (%)
- Fig. 14 Porter's Five Forces Analysis
- Fig. 15 PESTEL Analysis
- Fig. 16 Chitosan market volume share, by application, 2022 & 2030 (%)
- Fig. 17 Chitosan volume market, by region, 2022 & 2030 (%)
- Fig. 18 Brazil Pharmaceutical Industry Growth (2014 - 2020) (USD Billion)
- Fig. 19 Company Market Positioning

## I would like to order

Product name: Chitosan Market Size, Share & Trends Analysis Report By Application (Pharmaceutical, Water Treatment, Cosmetics, Biomedical, Food & Beverage), By Region, And Segment Forecasts, 2023 - 2030

Product link: <https://marketpublishers.com/r/C50AFDB1A8FEN.html>

Price: US\$ 5,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/C50AFDB1A8FEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970