

# Chitosan Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/CD11877AFD80EN.html>

Date: July 2023

Pages: 144

Price: US\$ 2,499.00 (Single User License)

ID: CD11877AFD80EN

## Abstracts

### Market Overview:

The global chitosan market size reached US\$ 2.3 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 4.6 Billion by 2028, exhibiting a growth rate (CAGR) of 12.3% during 2023-2028.

Chitosan is a naturally occurring deacetylated chitin which is extracted from the hard outer-skeleton or shells of shrimps, crabs and lobsters, along with mushrooms and yeasts. It is primarily used as an ingredient in medicines for treating various conditions, such as kidney failure, obesity, anemia, high cholesterol levels, hyperphosphatemia, insomnia and Crohn's disease. In the pharmaceutical manufacturing sector, chitosan is utilized in the development of edible films; as a filler in tablets; a carrier in controlled-release drugs and to improve the dissolvability of certain medicinal salts. Having antibacterial and antifungal properties, chitosan is extensively used as a natural antimicrobial agent in the cosmetics, agricultural and food industries.

The growing pharmaceutical industry, along with the increasing requirement for wastewater treatment across the globe represent the key factors driving the growth of the market. In the pharmaceutical industry, chitosan being a biomaterial with antibacterial and antimicrobial properties is gaining demand in the production of biomedical and tissue regeneration devices, hemodialysis membranes, and implant coatings for drug delivery systems. Furthermore, its demand is also increasing in the water treatment plants for eliminating impurities present in the industrial, municipal, and commercial waste, including heavy minerals, phosphorous and oils. It is also used as a flocculating, coagulating, and chelating agent, which is further acting as a major growth-inducing factor. Additionally, owing to its non-toxic nature, chitosan is increasingly being

adopted as a food additive and dietary supplement. Other factors contributing to the market growth include various government policies aimed to improve the quality of surface, ground and drinking water, coupled with the enhanced research and development (R&D) to develop chitosan from non-aquatic sources.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global chitosan market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on grade, source and application.

#### Breakup by Grade:

Industrial Grade

Food Grade

Pharmaceutical Grade

#### Breakup by Source:

Shrimp

Crab

Squid

Krill

Others

#### Breakup by Application:

Water Treatment

Food & Beverages

Cosmetics

Medical & Pharmaceuticals

Agrochemicals

Others

#### Breakup by Region:

Asia Pacific

Europe

North America

Middle East and Africa  
Latin America

#### Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Primex EHF, Hepe Medical Chitosan GmbH, Meron Group, KitoZyme SA, Golden-Shell Pharmaceutical Co. Ltd., FMC Corporation, Agra Tech, Inc., Axio Biosolutions Pvt Ltd and Marshall Marine Products.

#### Key Questions Answered in This Report

1. What was the size of the global chitosan market in 2022?
2. What is the expected growth rate of the global chitosan market during 2023-2028?
3. What has been the impact of COVID-19 on the global chitosan market?
4. What are the key factors driving the global chitosan market?
5. What is the breakup of the global chitosan market based on the grade?
6. What is the breakup of the global chitosan market based on the source?
7. What is the breakup of the global chitosan market based on the application?
8. What are the key regions in the global chitosan market?

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