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Global Sulfated Polysaccharides 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 Sulfated Polysaccharides market size was valued at US$ 552 million in 2025 and is forecast to a readjusted size of US$ 816 million by 2032 with a CAGR of 5.5% during review period.

In 2025, global sales volume of sulfated polysaccharides from brown algae (fucoidan) reached 7.5 thousand metric tons, with an average price of $71,536 per ton.

Sulfated polysaccharides from brown algae?also known as fucoidan?are derived primarily from brown algae species such as Laminaria (kelp), Undaria pinnatifida (wakame), Cladosiphon okamuranus (Okinawa mozuku), Ascophyllum nodosum (knotted wrack), and Sargassum. They are produced through processes including extraction, impurity removal, concentration, drying, purification, or degradation, and are marketed in forms such as powder, liquid, low-molecular-weight fucoidan, or compounded ingredients. Structurally, fucoidan is a class of sulfated, fucose-rich polysaccharides; its specific structure and biological activity vary significantly depending on the algae species, geographical origin, extraction method, and degree of purification.

The supply chain for these sulfated polysaccharides relies heavily on brown algae resources. Key sources include large brown algae such as Laminaria, Undaria pinnatifida, Fucus species, Sargassum, and Sargassum horneri. Coastal provinces in China, such as Shandong and Fujian, serve as core production hubs for large-scale seaweed farming; intensive cultivation of Laminaria and Undaria pinnatifida ensures a stable supply of fucoidan-rich raw materials, thereby reducing reliance on wild harvesting. While the average initial selling price for wet brown algae from global aquaculture is only about $0.47 per kilogram, there is a substantial price gap between

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the raw material cost and the market price of fucoidan, which is a high-value-added extract.

In terms of cost structure, the production cost of sulfated polysaccharides from brown algae comprises four main components: raw materials (brown algae procurement), extraction and processing (solvents, energy consumption, equipment depreciation), purification and refining (membrane separation, chromatographic purification), and quality control (testing, certification). Since the fucoidan content in brown algae typically ranges from only 5% to 20% of the dry weight, extraction yields are low, resulting in high raw material consumption. Furthermore, the complex structure of sulfated polysaccharides necessitates cumbersome purification processes that consume significant amounts of energy and solvents, leading to high processing costs relative to the total cost. As single-product production lines struggle to achieve profitability, a biorefinery model?sequentially extracting multiple high-value components such as fucoidan, alginate, fucoxanthin, and polyphenols from the same batch of brown algae?offers a key pathway to economic viability, enabling simultaneous improvements in raw material utilization and profit margins. Additionally, factors such as seasonal fluctuations in raw material supply, variations in fucoidan content across different batches of algae, and the costs associated with the strict quality control and certifications required for high-end pharmaceutical-grade products further drive up overall production costs; these are the primary reasons why fucoidan prices have remained consistently high.

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

Global Sulfated Polysaccharides market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/kg), 2021-2032

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Global Sulfated Polysaccharides market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/kg), 2021-2032

Global Sulfated Polysaccharides market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/kg), 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 Sulfated Polysaccharides

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 Sulfated Polysaccharides 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 Kanehide, Kamerycah, Yaizu Suisankagaku, Roquette, Fucoidan Force, Seaherb, Haerim Fucoidan, Marinova, Hi-Q Marine Biotech, Origin by Ocean, etc.

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

Market Segmentation

Sulfated Polysaccharides 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

10%?30%

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30%?60%

70%?90% and above

Market segment by Product Form

Powder

Liquid

Blended/Compound

Market segment by Raw Material Algae Species

Kelp (Laminaria)

Wakame (Undaria Pinnatifida)

Okinawa Mozuku (Cladosiphon Okamuranus)

Knotted Wrack/Bladder Wrack (Ascophyllum/Fucus)

Sargassum

Others

Market segment by Application

Health Supplements

Functional Foods and Beverages

Cosmetics and Personal Care

Animal Health and Aquaculture

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Pharmaceutical R&D

Others

Major players covered

Kanehide

Kamerycah

Yaizu Suisankagaku

Roquette

Fucoidan Force

Seaherb

Haerim Fucoidan

Marinova

Hi-Q Marine Biotech

Origin by Ocean

Qingdao Bright Moon Seaweed Group

Shandong Jiejing Group

Beijing Leili Marine Bioindustry

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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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 Sulfated Polysaccharides product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Sulfated Polysaccharides, with price, sales quantity, revenue, and global market share of Sulfated Polysaccharides from 2021 to 2026.

Chapter 3, the Sulfated Polysaccharides competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Sulfated Polysaccharides 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 Sulfated Polysaccharides 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 Sulfated

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Polysaccharides.

Chapter 14 and 15, to describe Sulfated Polysaccharides sales channel, distributors, customers, research findings and conclusion.

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