

Global Astaxanthin Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Astaxanthin market size was valued at USD 169.9 million in 2023 and is forecast to a readjusted size of USD 320.5 million by 2030 with a CAGR of 9.5% during review period.

Astaxanthin (CAS 472-61-7) is a naturally occurring dark red carotenoid found in nature primarily in aquatic animals such as salmon, trout, krill, shrimp, crayfish, and crustaceans. Astaxanthin is more than just a red pigment, it is one of the most powerful lipophilic antioxidants yet discovered. It has the unique capacity to quench free radicals and reactive species of oxygen and to inhibit lipid peroxidation. Studies have shown Natural Astaxanthin to be over 500 times stronger than vitamin E and much more potent than other carotenoids such as lutein, lycopene and β -carotene. Moreover, Astaxanthin a xanthophyll carotenoid, is a nutrient with a unique molecule structure, it does not convert to vitamin a (retinol) and has no "pro-oxidant" activity. Natural astaxanthin is biosynthesized by living microalgae (*H. Pluvialis*). Natural astaxanthin in supplements is typically produced by a specific type of microalgae (*Haematococcus pluvialis*), and also occurs in fish and crustaceans that consume this algae, including shrimp, salmon and krill. Natural astaxanthin is a dietary supplement with extremely powerful antioxidant benefits for human applications. According to the purity in the commercial market, the product can be divided to be various types based on the two types: Astaxanthin Oleoresin and Astaxanthin Powder. Currently, the major commercially available sources of synthetic astaxanthin come from petrochemicals. The chemical difference between natural and synthetic astaxanthin lies in the stereochemical orientation of the molecules in space (those different molecules are called "enantiomers"). astaxanthin exists in three main enantiomeric forms, termed 3S-3'S, 3R-3'S, and 3R-3'R.

Major global astaxanthin (CAS 472-61-7) players include Royal DSM N.V., Cyanotech

Corporation, Fuji Chemical Industries Co., Ltd., BASF and Algalif Iceland ehf. Etc. The top five players in the world by revenue account for almost 57 per cent. The European region is the world's largest market with a market share of about 47%, followed by North America and China with about 23% and 20%, respectively. In terms of product type, natural astaxanthin is the largest market segment, accounting for 70% of the market share, and in terms of application, nutraceuticals and medical have the largest share, accounting for about 48%.

The Global Info Research report includes an overview of the development of the Astaxanthin industry chain, the market status of Feed (Natural Astaxanthin, Synthetic Astaxanthin), Nutraceuticals & Medical (Natural Astaxanthin, Synthetic Astaxanthin), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Astaxanthin.

Regionally, the report analyzes the Astaxanthin markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Astaxanthin market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Astaxanthin market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Astaxanthin industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Kg), revenue generated, and market share of different by Type (e.g., Natural Astaxanthin, Synthetic Astaxanthin).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Astaxanthin market.

Regional Analysis: The report involves examining the Astaxanthin market at a regional

or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Astaxanthin market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Astaxanthin:

Company Analysis: Report covers individual Astaxanthin manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Astaxanthin. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Feed, Nutraceuticals & Medical).

Technology Analysis: Report covers specific technologies relevant to Astaxanthin. It assesses the current state, advancements, and potential future developments in Astaxanthin areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Astaxanthin market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Astaxanthin market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Natural Astaxanthin

Synthetic Astaxanthin

Market segment by Application

Feed

Nutraceuticals & Medical

Cosmetics

Food & Beverages

Major players covered

Royal DSM N.V.

Cyanotech Corporation

Fuji Chemical Industries Co., Ltd.

BASF

Algal?f Iceland ehf.

BGG

Atacama Bio Natural Products S.A.

Yunnan Alphy Biotech Co., Ltd.

Piveg, Inc.

Zhejiang NHU Company Ltd.

ENEOS Techno Materials Corporation

Jingzhou Natural Astaxanthin, Inc.

AlgaTechnologies Ltd.

Algamo s.r.o.

Parry Nutraceuticals

Biogenic Co., Ltd.

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 Astaxanthin product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Astaxanthin, with price, sales, revenue and global market share of Astaxanthin from 2019 to 2024.

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

Chapter 4, the Astaxanthin breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Astaxanthin market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Astaxanthin.

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

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