

Global Astaxanthin Market - 2025 -2033

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Abstracts

Astaxanthin Market Size

In 2023, the global astaxanthin market was valued at US\$ 1.61 Billion. The global Astaxanthin market size reached US\$ 1.73 Billion in 2024 and is expected to reach US\$ 3.47 Billion by 2033, growing at a CAGR of 8.1% during the forecast period 2025-2033.

Astaxanthin Market Overview

The global astaxanthin market has witnessed significant growth in recent years. The global astaxanthin market is driven by factors such as the increasing demand for astaxanthin in the cosmetic and pharmaceutical industries and the growing awareness about the health benefits of astaxanthin.

In the cosmetics industry, it is used in skincare products for its anti-aging and skin-brightening properties, which further boosts the astaxanthin market growth. Astaxanthin has various applications in a wide range of industries, including food and beverages, pharmaceuticals, cosmetics, and animal feed. The growing utilization of Astaxanthin in these sectors is expected to drive the astaxanthin market growth. Its antioxidant properties and potential health benefits make it an attractive ingredient in various products, which is expected to drive the astaxanthin market growth.

Astaxanthin Market Dynamics: Drivers & Restraints

Drivers:

Increasing product launches are significantly driving the astaxanthin market growth

The growing demand for astaxanthin in various industries is leading to the development

of new and innovative products. Manufacturers are adding astaxanthin into various supplements, cosmetic products, and feed. This expanding product range contributes to astaxanthin market growth by offering consumers a wider selection of astaxanthin-infused products.

The increasing research and development by the market players and the innovation of new products are expected to drive market growth. For instance, in May 2025, BGG announced the expansion of its astaxanthin manufacturing facilities in Yunnan Province, China, along with the establishment of a new research laboratory. The company's natural astaxanthin line, AstaZine, is derived from Certified Organic *Haematococcus pluvialis* and offers antioxidant, antifatigue, and skin, eye, and brain health benefits.

Similarly, on October 12, 2022, Willow Biosciences Inc. announced that it has completed proof of concept work, and has started yeast strain optimization and process development toward commercial production of astaxanthin, a powerful, naturally occurring, antioxidant compound that is used in diverse industries such as animal feed, food & nutrition, and cosmetics.

The increasing demand for astaxanthin across various industries is encouraging collaborations between astaxanthin manufacturers and cosmetic companies. These collaborations focus on developing innovative products, conducting joint marketing efforts, and leveraging each other's expertise. For instance, on May 2, 2022, Algalif and Divi's Nutraceuticals joined their expertise to develop highly concentrated beadlets of sustainable natural astaxanthin. Algalif's production process, located in Iceland, uses renewable energy and provides highly concentrated premium astaxanthin oleoresin naturally sourced from microalgae.

Restraint:

High production costs are hampering the growth of the astaxanthin market

One of the major restraints in the astaxanthin market is the high production cost, particularly for natural astaxanthin derived from microalgae (*Haematococcus pluvialis*). The cultivation, harvesting, and extraction processes are technologically intensive, require significant capital investment, and are sensitive to environmental conditions. This makes natural astaxanthin more expensive than synthetic alternatives, limiting its accessibility and scalability, especially in cost-sensitive markets.

Opportunity:

Rising demand for natural and clean-label ingredients is expected to create a lucrative opportunity for the growth of the astaxanthin market

A significant opportunity lies in the growing global demand for natural, clean-label, and sustainable ingredients in the food, beverage, cosmetics, and nutraceutical industries. Consumers are increasingly favoring natural antioxidants over synthetic ones due to their perceived health and environmental benefits. This trend is particularly strong in developed markets and is opening new avenues for plant- and algae-derived astaxanthin as a premium, health-focused ingredient across multiple applications.

Astaxanthin Market, Segment Analysis

The global astaxanthin market is segmented based on therapeutics, condition, dosage form, distribution channel, and region.

The dietary supplements segment was valued at US\$ 0.45 Billion in 2024 in the astaxanthin market

Astaxanthin is widely recognized for its potent antioxidant qualities and helps in fighting against oxidative stress and inflammation. This has made it popular in dietary supplements meant to improve overall health, improve skin attractiveness, and enhance eye and cardiovascular health. As more individuals become aware of the benefits of antioxidants and natural supplements, the demand for products containing astaxanthin grows. This trend is fueling expansion in the dietary supplement segment.

Consumers are increasingly opting for natural and plant-based supplements as part of their health and wellness regimens. Astaxanthin, a natural carotenoid found in microalgae, fits effectively with this option. With the growing demand for dietary supplements, manufacturers are innovating suitable products that are more efficient.

For instance, on March 27, 2024, Nutrex Hawaii introduced its vegan, sugar-free version of its best-selling product BioAstin. The supplement offers a range of features to consumers. The product is renowned for its tangible health benefits for diverse health goals, including not only healthy agers but also active lifestyles and beauty from within audiences

Additionally, in January 2024, AstaReal launched a rebranded version of its finished formulation Astaxin for consumers in Sweden and Norway. In addition to online stores

and health food stores, the supplement is also now available in selected pharmacies. The proven formula of Astaxin combines microalgae-based astaxanthin with vitamins C and E. It protects against oxidative stress, which is validated by the health claim on the package.

Astaxanthin Market, Geographical Analysis

North America is valued at US\$ 0.66 Billion in 2024 in the astaxanthin market

North America holds the dominant position in the market share and is expected to continue throughout the forecast period. This is due to the presence of major players in the astaxanthin industry, including pharmaceutical companies, biotechnology firms, and natural dietary supplement manufacturers.

The region has a robust biopharmaceutical industry and a strong focus on research and development activities. The increasing research and development of new products and supplements, and making them available for customers, is expected to drive the region's market growth.

For instance, in April 2024, the US-based chemical vendor Alfa Chemistry announced the launch of a series of premium natural astaxanthin ingredients aimed at improving health and well-being. Astaxanthin, a powerful antioxidant with numerous health benefits, is known for its ability to support cardiovascular health, skin health, and eye health, among other things.

Companies are receiving approvals and permissions from the regulatory bodies for their products and also marketing rights. These factors are expected to encourage market expansion with the increasing product availability in various regions.

Asia-Pacific is growing at the fastest pace in the Astaxanthin market, holding 19.8% of the market share

Asia-Pacific is emerging as the fastest-growing region in the astaxanthin market, currently accounting for approximately 19.8% of the global market share. This rapid growth is driven by increasing consumer awareness around the health benefits of natural antioxidants, rising demand for nutraceuticals and functional foods, and expanding aquaculture activities, particularly in countries like China, Japan, India, and South Korea.

The region's strong manufacturing base, supportive regulatory environment for natural supplements, and growing middle-class population with higher health consciousness are further accelerating market expansion.

Astaxanthin Market Competitive Landscape

Top companies in the astaxanthin market include Algal?f Iceland hf., Algorigin, Algatechnologies Ltd., Nutrex Hawaii, Astareal AB, BASF, Cardax, Inc., Solgar Inc., Natural Factors Inc., and Algae Health Sciences, among others.

Astaxanthin Market, Key Developments

In March 2024, Kuehnle AgroSystems (KAS), known for its innovative method of producing natural astaxanthin from microalgae, announced securing \$3 million in funding.

DataM Insights

Our research indicates that the global astaxanthin market is poised for significant growth over the forecast period, fueled by increasing consumer demand for natural antioxidants and rising awareness of preventive health and wellness. The market is benefiting from expanding applications in nutraceuticals, cosmetics, animal feed, and functional foods, along with growing interest in plant-based and clean-label ingredients.

Leading companies such as Algal?f Iceland hf., Algorigin, Algatechnologies Ltd., Nutrex Hawaii, Astareal AB, BASF, Cardax, Inc., Solgar Inc., Natural Factors Inc., and Algae Health Sciences, among others, are driving market expansion through product innovation, strategic partnerships, and advancements in microalgae cultivation and extraction technologies. This upward trajectory reflects a broader global trend toward sustainable and health-focused solutions in the nutrition and personal care industries.

The global astaxanthin market report delivers a detailed analysis with 70 key tables, more than 65+ visually impactful figures, and 178 pages of expert insights, providing a complete view of the market landscape.

Contents

1. MARKET INTRODUCTION AND SCOPE

- 1.1. Objectives of the Report
- 1.2. Report Coverage & Definitions
- 1.3. Report Scope

2. EXECUTIVE INSIGHTS AND KEY TAKEAWAYS

3. MARKET HIGHLIGHTS AND STRATEGIC TAKEAWAYS

- 3.1. Key Trends and Future Projections

4. SNIPPET BY PRODUCT TYPE

- 4.1. Snippet by Product Form
- 4.2. Snippet by Production Method
- 4.3. Snippet by Application
- 4.4. Snippet by Region

5. DYNAMICS

5.1. Impacting Factors

5.1.1. Drivers

- 5.1.1.1. Increasing Product Launches
- 5.1.1.2. Rising Health Awareness
- 5.1.1.3. Expanding Nutraceutical Industry

5.1.2. Restraints

- 5.1.2.1. High Production Costs
- 5.1.2.2. Expanding Cosmetic and Personal Care Applications

5.1.3. Opportunity

- 5.1.3.1. Rising Demand for Natural and Clean-Label Ingredients
- 5.1.3.2. R&D and Product Innovation

5.1.4. Impact Analysis

6. STRATEGIC INSIGHTS AND INDUSTRY OUTLOOK

6.1. Market Leaders and Pioneers

- 6.1.1. Emerging Pioneers and Prominent Players
- 6.1.2. Established Leaders with the Largest Marketing Brand
- 6.1.3. Market Leaders with Established Products
- 6.2. Latest Developments and Breakthroughs
- 6.3. Regulatory and Reimbursement Landscape
 - 6.3.1. North America
 - 6.3.2. Europe
 - 6.3.3. Asia Pacific
 - 6.3.4. South America
 - 6.3.5. Middle East & Africa
- 6.4. Porter's Five Forces Analysis
- 6.5. Supply Chain Analysis
- 6.6. Patent Analysis
- 6.7. SWOT Analysis
- 6.8. Unmet Needs and Gaps
- 6.9. Recommended Strategies for Market Entry and Expansion
- 6.10. Pricing Analysis and Price Dynamics

7. ASTAXANTHIN MARKET, BY PRODUCT TYPE

- 7.1. Introduction
 - 7.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Type
 - 7.1.2. Market Attractiveness Index, By Product Type
- 7.2. Natural*
 - 7.2.1. Introduction
 - 7.2.2. Market Size Analysis and Y-o-Y Growth Analysis (%)
 - 7.2.3. Yeast
 - 7.2.4. Krill/Shrimp
 - 7.2.5. Microalgae
 - 7.2.6. Others
- 7.3. Synthetic

8. ASTAXANTHIN MARKET, BY PRODUCT FORM

- 8.1. Introduction
 - 8.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Form
 - 8.1.2. Market Attractiveness Index, By Product Form
- 8.2. Soft Gels*
 - 8.2.1. Introduction

8.2.2. Market Size Analysis and Y-o-Y Growth Analysis (%)

8.3. Tablets

8.4. Capsules

8.5. Powder

8.6. Others

9. ASTAXANTHIN MARKET, BY PRODUCTION METHOD

9.1. Introduction

9.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Production Method

9.1.2. Market Attractiveness Index, By Production Method

9.2. Chemical Synthesis*

9.2.1. Introduction

9.2.2. Market Size Analysis and Y-o-Y Growth Analysis (%)

9.3. Fermentation

9.4. Extraction

9.5. Others

10. ASTAXANTHIN MARKET, BY APPLICATION

10.1. Introduction

10.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Application

10.1.2. Market Attractiveness Index, By Application

10.2. Dietary Supplements*

10.2.1. Introduction

10.2.2. Market Size Analysis and Y-o-Y Growth Analysis (%)

10.3. Pharmaceuticals

10.4. Cosmetics

10.5. Food and Beverages

10.6. Animal Feed

10.7. Others

11. ASTAXANTHIN MARKET, BY REGIONAL MARKET ANALYSIS AND GROWTH OPPORTUNITIES

11.1. Introduction

11.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Region

11.1.2. Market Attractiveness Index, By Region

11.2. North America

- 11.2.1. Introduction
- 11.2.2. Key Region-Specific Dynamics
- 11.2.3. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Type
- 11.2.4. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Form
- 11.2.5. Market Size Analysis and Y-o-Y Growth Analysis (%), By Production Method
- 11.2.6. Market Size Analysis and Y-o-Y Growth Analysis (%), By Application
- 11.2.7. Market Size Analysis and Y-o-Y Growth Analysis (%), By Country
 - 11.2.7.1. U.S.
 - 11.2.7.2. Canada
 - 11.2.7.3. Mexico
- 11.3. Europe
 - 11.3.1. Introduction
 - 11.3.2. Key Region-Specific Dynamics
 - 11.3.3. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Type
 - 11.3.4. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Form
 - 11.3.5. Market Size Analysis and Y-o-Y Growth Analysis (%), By Production Method
 - 11.3.6. Market Size Analysis and Y-o-Y Growth Analysis (%), By Application
 - 11.3.7. Market Size Analysis and Y-o-Y Growth Analysis (%), By Country
 - 11.3.7.1. Germany
 - 11.3.7.2. UK
 - 11.3.7.3. France
 - 11.3.7.4. Spain
 - 11.3.7.5. Italy
 - 11.3.7.6. Rest of Europe
- 11.4. Asia-Pacific
 - 11.4.1. Introduction
 - 11.4.2. Key Region-Specific Dynamics
 - 11.4.3. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Type
 - 11.4.4. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Form
 - 11.4.5. Market Size Analysis and Y-o-Y Growth Analysis (%), By Production Method
 - 11.4.6. Market Size Analysis and Y-o-Y Growth Analysis (%), By Application
 - 11.4.7. Market Size Analysis and Y-o-Y Growth Analysis (%), By Country
 - 11.4.7.1. China
 - 11.4.7.2. India
 - 11.4.7.3. Japan
 - 11.4.7.4. South Korea
 - 11.4.7.5. Rest of Asia-Pacific
- 11.5. South America
 - 11.5.1. Introduction

11.5.2. Key Region-Specific Dynamics

11.5.3. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Type

11.5.4. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Form

11.5.5. Market Size Analysis and Y-o-Y Growth Analysis (%), By Production Method

11.5.6. Market Size Analysis and Y-o-Y Growth Analysis (%), By Application

11.5.7. Market Size Analysis and Y-o-Y Growth Analysis (%), By Country

11.5.7.1. Brazil

11.5.7.2. Argentina

11.5.7.3. Rest of South America

11.6. Middle East and Africa

11.6.1. Introduction

11.6.2. Key Region-Specific Dynamics

11.6.3. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Type

11.6.4. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Form

11.6.5. Market Size Analysis and Y-o-Y Growth Analysis (%), By Production Method

11.6.6. Market Size Analysis and Y-o-Y Growth Analysis (%), By Application

12. COMPETITIVE LANDSCAPE AND MARKET POSITIONING

12.1. Competitive Overview and Key Market Players

12.2. Market Share Analysis and Positioning Matrix

12.3. Strategic Partnerships, Mergers & Acquisitions

12.4. Key Developments in Product Portfolios and Innovations

12.5. Company Benchmarking

13. COMPANY PROFILES

13.1. Algal?f Iceland hf.*

13.1.1. Company Overview

13.1.2. Product Portfolio

13.1.2.1. Product Description

13.1.2.2. Product Key Performance Indicators (KPIs)

13.1.3. Financial Overview

13.1.3.1. Company Revenue

13.1.3.2. Geographical Revenue Shares

13.1.3.3. Revenue Forecasts

13.1.4. Key Developments

13.1.4.1. Mergers & Acquisitions

13.1.4.2. Key Product Development Activities

- 13.1.4.3. Regulatory Approvals, etc.
- 13.1.5. SWOT Analysis
- 13.2. Algorigin
- 13.3. Algatechnologies Ltd.
- 13.4. Nutrex Hawaii
- 13.5. Astareal AB
- 13.6. BASF
- 13.7. Cardax, Inc.
- 13.8. Solgar Inc.
- 13.9. Natural Factors Inc.
- 13.10. Algae Health Sciences (LIST NOT EXHAUSTIVE)

14. ASSUMPTIONS AND RESEARCH METHODOLOGY

- 14.1. Data Collection Methods
- 14.2. Data Triangulation
- 14.3. Forecasting Techniques
- 14.4. Data Verification and Validation

15. APPENDIX

- 15.1. About Us and Services
- 15.2. Contact Us

List Of Tables

LIST OF TABLES

Table 1 Global Astaxanthin Market Value, By Product Type, 2025, 2029 & 2033 (US\$ Billion)

Table 2 Global Astaxanthin Market Value, By Product Form, 2025, 2029 & 2033 (US\$ Billion)

Table 3 Global Astaxanthin Market Value, By Production Method, 2025, 2029 & 2033 (US\$ Billion)

Table 4 Global Astaxanthin Market Value, By Application, 2025, 2029 & 2033 (US\$ Billion)

Table 5 Global Astaxanthin Market Value, By Region, 2025, 2029 & 2033 (US\$ Billion)

Table 6 Global Astaxanthin Market Value, By Product Type, 2025, 2029 & 2033 (US\$ Billion)

Table 7 Global Astaxanthin Market Value, By Product Type, 2022-2033 (US\$ Billion)

Table 8 Global Astaxanthin Market Value, By Product Form, 2025, 2029 & 2033 (US\$ Billion)

Table 9 Global Astaxanthin Market Value, By Product Form, 2022-2033 (US\$ Billion)

Table 10 Global Astaxanthin Market Value, By Production Method, 2025, 2029 & 2033 (US\$ Billion)

Table 11 Global Astaxanthin Market Value, By Production Method, 2022-2033 (US\$ Billion)

Table 12 Global Astaxanthin Market Value, By Application, 2025, 2029 & 2033 (US\$ Billion)

Table 13 Global Astaxanthin Market Value, By Application, 2022-2033 (US\$ Billion)

Table 14 Global Astaxanthin Market Value, By Region, 2025, 2029 & 2033 (US\$ Billion)

Table 15 Global Astaxanthin Market Value, By Region, 2022-2033 (US\$ Billion)

Table 16 North America Astaxanthin Market Value, By Product Type, 2022-2033 (US\$ Billion)

Table 17 North America Astaxanthin Market Value, By Product Form, 2022-2033 (US\$ Billion)

Table 18 North America Astaxanthin Market Value, By Production Method, 2022-2033 (US\$ Billion)

Table 19 North America Astaxanthin Market Value, By Application, 2022-2033 (US\$ Billion)

Table 20 North America Astaxanthin Market Value, By Country, 2022-2033 (US\$ Billion)

Table 21 Asia-Pacific Astaxanthin Market Value, By Product Type, 2022-2033 (US\$ Billion)

Table 22 Asia-Pacific Astaxanthin Market Value, By Product Form, 2022-2033 (US\$ Billion)

Table 23 Asia-Pacific Astaxanthin Market Value, By Production Method, 2022-2033 (US\$ Billion)

Table 24 Asia-Pacific Astaxanthin Market Value, By Application, 2022-2033 (US\$ Billion)

Table 25 Asia-Pacific Astaxanthin Market Value, By Country, 2022-2033 (US\$ Billion)

Table 26 Europe Astaxanthin Market Value, By Product Type, 2022-2033 (US\$ Billion)

Table 27 Europe Astaxanthin Market Value, By Product Form, 2022-2033 (US\$ Billion)

Table 28 Europe Astaxanthin Market Value, By Production Method, 2022-2033 (US\$ Billion)

Table 29 Europe Astaxanthin Market Value, By Application, 2022-2033 (US\$ Billion)

Table 30 Europe Astaxanthin Market Value, By Country, 2022-2033 (US\$ Billion)

Table 31 South America Astaxanthin Market Value, By Product Type, 2022-2033 (US\$ Billion)

Table 32 South America Astaxanthin Market Value, By Product Form, 2022-2033 (US\$ Billion)

Table 33 South America Astaxanthin Market Value, By Production Method, 2022-2033 (US\$ Billion)

Table 34 South America Astaxanthin Market Value, By Application, 2022-2033 (US\$ Billion)

Table 35 South America Astaxanthin Market Value, By Country, 2022-2033 (US\$ Billion)

Table 36 Middle East and Africa Astaxanthin Market Value, By Product Type, 2022-2033 (US\$ Billion)

Table 37 Middle East and Africa Astaxanthin Market Value, By Product Form, 2022-2033 (US\$ Billion)

Table 38 Middle East and Africa Astaxanthin Market Value, By Production Method, 2022-2033 (US\$ Billion)

Table 39 Middle East and Africa Astaxanthin Market Value, By Application, 2022-2033 (US\$ Billion)

Table 40 Middle East and Africa Astaxanthin Market Value, By Country, 2022-2033 (US\$ Billion)

Table 41 Algal?f Iceland hf.: Overview

Table 42 Algal?f Iceland hf.: Product Portfolio

Table 43 Algal?f Iceland hf.: Key Developments

Table 44 Algorigin: Overview

Table 45 Algorigin: Product Portfolio

Table 46 Algorigin: Key Developments

Table 47 Algatechnologies Ltd.: Overview

Table 48 Algatechnologies Ltd.: Product Portfolio

Table 49 Algatechnologies Ltd.: Key Developments

Table 50 Nutrex Hawaii: Overview

Table 51 Nutrex Hawaii: Product Portfolio

Table 52 Nutrex Hawaii: Key Developments

Table 53 Astareal AB: Overview

Table 54 Astareal AB: Product Portfolio

Table 55 Astareal AB: Key Developments

Table 56 BASF: Overview

Table 57 BASF: Product Portfolio

Table 58 BASF: Key Developments

Table 59 Cardax, Inc.: Overview

Table 60 Cardax, Inc.: Product Portfolio

Table 61 Cardax, Inc.: Key Developments

Table 62 Solgar Inc.: Overview

Table 63 Solgar Inc.: Product Portfolio

Table 64 Solgar Inc.: Key Developments

Table 65 Natural Factors Inc.: Overview

Table 66 Natural Factors Inc.: Product Portfolio

Table 67 Natural Factors Inc.: Key Developments

Table 68 Algae Health Sciences: Overview

Table 69 Algae Health Sciences: Product Portfolio

Table 70 Algae Health Sciences: Key Developments

List Of Figures

LIST OF FIGURES

Figure 1 Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 2 Global Astaxanthin Market Share, By Product Type, 2024 & 2033 (%)

Figure 3 Global Astaxanthin Market Share, By Product Form, 2024 & 2033 (%)

Figure 4 Global Astaxanthin Market Share, By Production Method, 2024 & 2033 (%)

Figure 5 Global Astaxanthin Market Share, By Application, 2024 & 2033 (%)

Figure 6 Global Astaxanthin Market Share, By Region, 2024 & 2033 (%)

Figure 7 Global Astaxanthin Market Y-o-Y Growth, By Product Type, 2023-2033 (%)

Figure 8 Natural Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 9 Synthetic Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 10 Global Astaxanthin Market Y-o-Y Growth, By Product Form, 2023-2033 (%)

Figure 11 Soft Gels Product Form in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 12 Tablets Product Form in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 13 Capsules Product Form in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 14 Powder Product Form in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 15 Others Product Form in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 16 Global Astaxanthin Market Y-o-Y Growth, By Production Method, 2023-2033 (%)

Figure 17 Chemical Synthesis Production Method in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 18 Fermentation Production Method in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 19 Extraction Production Method in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 20 Others Production Method in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 21 Global Astaxanthin Market Y-o-Y Growth, By Application, 2023-2033 (%)

Figure 22 Dietary Supplements Application in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 23 Pharmaceuticals Application in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 24 Cosmetics Application in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 25 Food and Beverages Application in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 26 Animal Feed Application in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 27 Others Application in Global Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 28 Global Astaxanthin Market Y-o-Y Growth, By Region, 2023-2033 (%)

Figure 29 North America Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 30 North America Astaxanthin Market Share, By Product Type, 2024 & 2033 (%)

Figure 31 North America Astaxanthin Market Share, By Product Form, 2024 & 2033 (%)

Figure 32 North America Astaxanthin Market Share, By Production Method, 2024 & 2033 (%)

Figure 33 North America Astaxanthin Market Share, By Application, 2024 & 2033 (%)

Figure 34 North America Astaxanthin Market Share, By Country, 2024 & 2033 (%)

Figure 35 Asia-Pacific Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 36 Asia-Pacific Astaxanthin Market Share, By Product Type, 2024 & 2033 (%)

Figure 37 Asia-Pacific Astaxanthin Market Share, By Product Form, 2024 & 2033 (%)

Figure 38 Asia-Pacific Astaxanthin Market Share, By Production Method, 2024 & 2033 (%)

Figure 39 Asia-Pacific Astaxanthin Market Share, By Application, 2024 & 2033 (%)

Figure 40 Asia-Pacific Astaxanthin Market Share, By Country, 2024 & 2033 (%)

Figure 41 Europe Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 42 Europe Astaxanthin Market Share, By Product Type, 2024 & 2033 (%)

Figure 43 Europe Astaxanthin Market Share, By Product Form, 2024 & 2033 (%)

Figure 44 Europe Astaxanthin Market Share, By Production Method, 2024 & 2033 (%)

Figure 45 Europe Astaxanthin Market Share, By Application, 2024 & 2033 (%)

Figure 46 Europe Astaxanthin Market Share, By Country, 2024 & 2033 (%)

Figure 47 South America Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 48 South America Astaxanthin Market Share, By Product Type, 2024 & 2033 (%)

Figure 49 South America Astaxanthin Market Share, By Product Form, 2024 & 2033 (%)

Figure 50 South America Astaxanthin Market Share, By Production Method, 2024 & 2033 (%)

Figure 51 South America Astaxanthin Market Share, By Application, 2024 & 2033 (%)

Figure 52 South America Astaxanthin Market Share, By Country, 2024 & 2033 (%)

Figure 53 Middle East and Africa Astaxanthin Market Value, 2022-2033 (US\$ Billion)

Figure 54 Middle East and Africa Astaxanthin Market Share, By Product Type, 2024 & 2033 (%)

Figure 55 Middle East and Africa Astaxanthin Market Share, By Product Form, 2024 & 2033 (%)

Figure 56 Middle East and Africa Astaxanthin Market Share, By Production Method, 2024 & 2033 (%)

Figure 57 Middle East and Africa Astaxanthin Market Share, By Application, 2024 & 2033 (%)

Figure 58 Algal?f Iceland hf.: Financials

Figure 59 Algorigin: Financials

Figure 60 Algatechnologies Ltd.: Financials

Figure 61 Nutrex Hawaii: Financials

Figure 62 Astareal AB: Financials

Figure 63 BASF: Financials

Figure 64 Cardax, Inc.: Financials

Figure 65 Solgar Inc.: Financials

Figure 66 Natural Factors Inc.: Financials

Figure 67 Algae Health Sciences: Financials

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