

Astaxanthin Market by Source (Natural, Synthetic), Form (Dry, Liquid), Method of Production (Microalgae Cultivation, Chemical Synthesis, Fermentation), Application (Dietary Supplements, Food & Beverages, Cosmetics), and Region - Global Forecast to 2026

<https://marketpublishers.com/r/A0709689C82EN.html>

Date: August 2021

Pages: 225

Price: US\$ 4,950.00 (Single User License)

ID: A0709689C82EN

Abstracts

The astaxanthin market is estimated at USD 647 million in 2021 and is projected to grow at a CAGR of 8.3% to reach USD 965 million by 2026. The growth in the astaxanthin market is attributed to the growing health awareness among consumers, leading to an increase in the adoption of healthier diets. Food safety concerns & adherence to stringent international quality standards and regulations restrain the growth of the astaxanthin market.

“The market for food & beverages, by application, is projected to witness the fastest growth in the market during the forecast period.”

The food & beverages segment is expected to record the highest growth rate during the forecast period, which is mainly attributed to the increasing use of natural colorants in food and beverages products. In the food industry, astaxanthin is also used for product storage and for standardizing the color of food products, such as margarine, cheeses, sausages, pasta, and other beverages.

“The synthetic source segment dominated the astaxanthin market in 2020.”

The synthetic segment is projected to dominate the astaxanthin market, as they are easy to extract and have low manufacturing costs. This can be attributed to its low cost of production and high usage in the aquafeed industry. Consumers and manufacturers prefer opting for low-priced synthetic astaxanthin. Developing regions, such as South

America and Asia Pacific, are the major contributors to the growth of this market, as affordability and price sensitivity are important aspects for consumers opting for synthetic astaxanthin.

“The dry form segment dominated the astaxanthin market in 2020.”

Growing awareness about storage and handling problems of liquid astaxanthin among food and beverage manufacturers are some of the key factors driving the demand for dry ingredients, subsequently augmenting the growth of the dry astaxanthin market over the next few years. The process with the dry format is a little easier, especially in high-volume manufacturing. The dry form is widely consumed for manufacturing astaxanthin products, such as dietary supplement tablets, capsules, owing to the easy application and various other benefits. For instance, enclosed supplement capsules retain all desired product properties. They eliminate flavor and color variability while providing easy handling and storage, which is difficult with liquid products

“European market is driven by consumer demand for a wide range of food products with functional benefits such as gut health, bone health, immunity, and heart health”.

Europe accounted for a second-largest share of about 32.6% in the global astaxanthin market in 2020 in terms of value. The presence of key synthetic astaxanthin manufacturers and health consciousness among consumers lead Europe’s astaxanthin market. Key market players include Koninklijke DSM N.V. (Netherlands), BASF SE (Germany), and BioReal (Sweden). An increase in livestock production in the region, especially poultry and fisheries, has resulted in an increased demand for astaxanthin in animal feed applications

Break-up of Primaries:

By Company Type: Tier 1 - 40%, Tier 2 - 30%, and Tier 3 - 30%

By Designation: Managers- 40%, CXOs - 25%, and Executives - 35%

By Region: Asia Pacific – 30%, North America - 10%, Europe - 50%, RoW – 10%

Leading players profiled in this report:

Koninklijke DSM N.V. (the Netherlands)

BASF SE (Germany)

Cyanotech Corporation (US)

Otsuka Holdings Co. Ltd. (Japan)

Divi's Laboratories Ltd. (India)

Valensa International (US)

Fuji Chemical Industries Co. Ltd. (Japan)

Beijing Gingko Group (China)

Cardax, Inc. (Denmark)

Piveg, Inc. (US)

Fenchem Biotek Ltd. (China)

Algatech Ltd. (Israel)

Supreme Biotechnologies (New Zealand)

Igene Biotechnology Inc. (US)

Algamo (Czech Republic)

Biogenic Co., Ltd. (Japan)

Astamaz NZ Ltd. (New Zealand)

Algalif (Iceland)

Algae to Omega (US)

Algae Health Sciences, Inc. (US)

Research Coverage:

The report segments the astaxanthin market on the basis of sources, forms, methods of production, applications, and regions. In terms of insights, this report has focused on various levels of analyses—the competitive landscape, end-use analysis, and company profiles, which together comprise and discuss views on the emerging & high-growth segments of the global astaxanthin, high-growth regions, countries, government initiatives, drivers, restraints, opportunities, and challenges.

Reasons to buy this report:

To get a comprehensive overview of the astaxanthin market

To gain wide-ranging information about the top players in this industry, their product portfolios, and key strategies adopted by them

To gain insights about the major countries/regions in which the astaxanthin market is flourishing

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
- FIGURE 1 MARKET SEGMENTATION
 - 1.3.1 INCLUSIONS AND EXCLUSIONS
- 1.4 REGIONS COVERED
- 1.5 PERIODIZATION CONSIDERED
- 1.6 CURRENCY CONSIDERED
- TABLE 1 USD EXCHANGE RATES, 2016–2020
- 1.7 VOLUME UNIT CONSIDERED
- 1.8 STAKEHOLDERS
- 1.9 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - FIGURE 2 ASTAXANTHIN MARKET: RESEARCH DESIGN
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Key industry insights
 - 2.1.2.2 Breakdown of primary interviews
 - FIGURE 3 BREAKDOWN OF PRIMARY INTERVIEWS BY COMPANY TYPE, DESIGNATION, AND REGION
- 2.2 MARKET SIZE ESTIMATION
 - FIGURE 4 ASTAXANTHIN MARKET SIZE ESTIMATION – SUPPLY SIDE (1/2)
 - FIGURE 5 ASTAXANTHIN MARKET SIZE ESTIMATION – SUPPLY SIDE (2/2)
 - FIGURE 6 ASTAXANTHIN MARKET SIZE ESTIMATION – DEMAND SIDE
 - 2.2.1 MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH
 - FIGURE 7 ASTAXANTHIN MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH
 - 2.2.2 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH
 - FIGURE 8 ASTAXANTHIN MARKET SIZE ESTIMATION: TOP-DOWN APPROACH
- 2.3 DATA TRIANGULATION
 - FIGURE 9 DATA TRIANGULATION
- 2.4 ASSUMPTIONS FOR THE STUDY

2.5 RESEARCH LIMITATIONS & ASSOCIATED RISKS

2.6 MARKET SCENARIOS CONSIDERED FOR THE IMPACT OF COVID-19

2.6.1 SCENARIO-BASED MODELING

2.7 COVID-19 HEALTH ASSESSMENT

FIGURE 10 COVID-19: GLOBAL PROPAGATION

FIGURE 11 COVID-19 PROPAGATION: SELECT COUNTRIES

2.8 COVID-19 ECONOMIC ASSESSMENT

FIGURE 12 REVISED GROSS DOMESTIC PRODUCT FORECASTS FOR SELECT G20 COUNTRIES IN 2020

2.8.1 COVID-19 ECONOMIC IMPACT—SCENARIO ASSESSMENT

FIGURE 13 CRITERIA IMPACTING GLOBAL ECONOMY

FIGURE 14 SCENARIOS IN TERMS OF RECOVERY OF GLOBAL ECONOMY

3 EXECUTIVE SUMMARY

TABLE 2 ASTAXANTHIN MARKET SNAPSHOT, 2021 VS. 2026

FIGURE 15 IMPACT OF COVID-19 ON THE ASTAXANTHIN MARKET SIZE, BY SCENARIO, 2020 VS. 2021 (USD MILLION)

FIGURE 16 ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021 VS. 2026 (USD MILLION)

FIGURE 17 ASTAXANTHIN MARKET SHARE (VALUE), BY FORM, 2021 VS. 2026

FIGURE 18 ASTAXANTHIN MARKET SIZE, BY SOURCE, 2021 VS. 2026 (USD MILLION)

FIGURE 19 ASTAXANTHIN MARKET SIZE, BY METHOD OF PRODUCTION, 2021 VS. 2026 (USD MILLION)

FIGURE 20 ASTAXANTHIN MARKET SHARE (VALUE), BY REGION, 2020

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN THE ASTAXANTHIN MARKET

FIGURE 21 GROWING HEALTH AWARENESS REGARDING ANTIOXIDANT PROPERTIES AMONG CONSUMERS TO DRIVE THE DEMAND FOR ASTAXANTHIN

4.2 ASTAXANTHIN MARKET, BY KEY COUNTRY

FIGURE 22 US TO BE THE FASTEST-GROWING MARKET DURING THE FORECAST PERIOD

4.3 ASIA PACIFIC: ASTAXANTHIN MARKET, BY SOURCE & KEY COUNTRY

FIGURE 23 SYNTHETIC SEGMENT AND CHINA TO ACCOUNT FOR THE LARGEST SHARES OF THE ASIA PACIFIC MARKET IN 2020

4.4 ASTAXANTHIN MARKET, BY APPLICATION & REGION

FIGURE 24 FEED APPLICATION TO DOMINATE THE MARKET ACROSS ASIA PACIFIC IN 2020

4.5 ASTAXANTHIN MARKET, BY FORM & REGION

FIGURE 25 LIQUID FORM TO BE THE FASTER-GROWING SEGMENT DURING THE FORECAST PERIOD

4.6 COVID-19 IMPACT ON THE ASTAXANTHIN MARKET

FIGURE 26 CHART OF PRE & POST-COVID SCENARIOS IN THE ASTAXANTHIN MARKET

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MACROECONOMIC INDICATORS

5.2.1 DEVELOPMENT IN THE RETAIL INDUSTRY

FIGURE 27 RETAIL MARKET SIZE IN INDIA, 2021 (USD BILLION)

FIGURE 28 AUSTRALIA: RETAIL SALES OF FUNCTIONAL AND FORTIFIED FOOD PRODUCTS, 2018–2022 (USD MILLION)

FIGURE 29 ONLINE RETAIL MARKET SIZE IN INDIA, 2021 (USD BILLION)

5.2.2 RISE IN THE NUMBER OF DUAL-INCOME HOUSEHOLDS

FIGURE 30 US: EMPLOYMENT STATUS OF PARENTS WITH CHILDREN UNDER 18 YEARS, 2020

5.3 MARKET DYNAMICS

FIGURE 31 ASTAXANTHIN: MARKET DYNAMICS

5.3.1 DRIVERS

5.3.1.1 Rising consumer inclination toward preventive healthcare & nutraceuticals

FIGURE 32 WORLD HEALTH PER CAPITA EXPENDITURE, 2006-2018 (USD THOUSAND)

FIGURE 33 HEALTH EXPENDITURE: US VS. OTHER COUNTRIES, 2006-2018, (AS PERCENTAGE OF GDP)

5.3.1.2 Rapid industrialization of the feed industry

FIGURE 34 FEED CONSUMPTION SHARE (VOLUME), BY LIVESTOCK TYPE, 2018

5.3.1.3 Increasing demand for cosmetic products

FIGURE 35 ANNUAL GROWTH OF THE GLOBAL COSMETIC MARKET (PERCENTAGE), 2010-2019

5.3.2 RESTRAINTS

5.3.2.1 High cost of production of natural astaxanthin

5.3.2.2 Lack of R&D activities in the underdeveloped countries

5.3.3 OPPORTUNITIES

5.3.3.1 Government initiatives to support aquaculture

FIGURE 36 WORLD FISHERIES AND AQUACULTURE PRODUCTION (MILLION TONNES), 2010-2018

5.3.3.2 Growing demand for natural antioxidants

5.3.3.3 Growing demand for astaxanthin in the pharmaceutical industry

5.3.4 CHALLENGES

5.3.4.1 Risks associated with adulteration and clean label requirements

5.3.4.2 Stringent government regulations in developed countries

5.4 IMPACT OF COVID-19 ON THE MARKET DYNAMICS

5.4.1 COVID-19 BOOSTS THE DEMAND FOR HIGH-QUALITY AND PREMIUM FOOD & BEVERAGES PRODUCTS

5.4.2 COVID-19 IMPACT ON RAW MATERIAL AVAILABILITY AND SUPPLY CHAIN DISRUPTION

5.4.3 COVID-19 TO SHIFT THE DEMAND TOWARD PLANT-SOURCED INGREDIENTS

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 SUPPLY CHAIN ANALYSIS

FIGURE 37 ASTAXANTHIN MARKET: SUPPLY CHAIN ANALYSIS

6.3 ECOSYSTEM

FIGURE 38 ASTAXANTHIN: MARKET MAP

TABLE 3 ASTAXANTHIN MARKET: ECOSYSTEM

6.3.1 UPSTREAM

6.3.2 INGREDIENT MANUFACTURERS

6.3.3 TECHNOLOGY PROVIDERS

6.3.4 END USERS

6.3.4.1 Downstream

6.3.5 REGULATORY BODIES

6.3.6 STARTUPS/EMERGING COMPANIES

6.4 VALUE CHAIN ANALYSIS

FIGURE 39 ASTAXANTHIN MARKET: VALUE CHAIN ANALYSIS

6.5 TECHNOLOGY ANALYSIS

6.5.1 ASTAXANTHIN AND MICROENCAPSULATION

6.5.2 ASTAXANTHIN AND ROBOTS

6.6 PRICING ANALYSIS: ASTAXANTHIN MARKET, BY SOURCE

FIGURE 40 PRICING TREND OF THE ASTAXANTHIN, 2016–2020 (USD/TON)

6.7 TRENDS/DISRUPTIONS IMPACTING THE CUSTOMER'S BUSINESS

FIGURE 41 YC-YCC: REVENUE SHIFT FOR THE ASTAXANTHIN MARKET

6.8 PORTER'S FIVE FORCES ANALYSIS

TABLE 4 ASTAXANTHIN MARKET: PORTER'S FIVE FORCES ANALYSIS

6.8.1 INTENSITY OF COMPETITIVE RIVALRY

6.8.2 BARGAINING POWER OF SUPPLIERS

6.8.3 BARGAINING POWER OF BUYERS

6.8.4 THREAT OF NEW ENTRANTS

6.8.5 THREAT OF SUBSTITUTES

6.9 PATENT ANALYSIS

FIGURE 42 PATENT INSIGHTS (2020)

FIGURE 43 LIST OF TOP PATENTS IN THE MARKET FOR THE LAST TEN YEARS

TABLE 5 KEY PATENTS PERTAINING TO ASTAXANTHIN, 2020

6.10 TRADE ANALYSIS

TABLE 6 KEY EXPORTING COUNTRIES WITH EXPORT VALUE OF DIETARY SUPPLEMENTS, 2019 (USD MILLION)

FIGURE 44 IMPORT TARIFF OF KEY COUNTRIES ON DIETARY SUPPLEMENTS, 2019 (%)

6.11 CASE STUDY ANALYSIS

6.11.1 USE CASE 1: TATSEWISE'S AI AND MACHINE LEARNING SOLUTION HELPED MEET THE INCREASING DEMAND

6.11.2 USE CASE 2: MINDRIGHT'S BARS HELPED COMBAT MENTAL HEALTH ISSUES

6.12 REGULATIONS

6.12.1 NORTH AMERICA

6.12.1.1 Canada

6.12.1.2 US

6.12.2 EUROPEAN UNION (EU)

7 ASTAXANTHIN MARKET, BY SOURCE

7.1 INTRODUCTION

FIGURE 45 ASTAXANTHIN MARKET SHARE (VALUE), BY SOURCE, 2021 VS. 2026

TABLE 7 ASTAXANTHIN MARKET SIZE, BY SOURCE, 2016–2020 (USD MILLION)

TABLE 8 ASTAXANTHIN MARKET SIZE, BY SOURCE, 2021–2026(USD MILLION)

TABLE 9 ASTAXANTHIN MARKET SIZE, BY SOURCE, 2016–2020 (TON)

TABLE 10 ASTAXANTHIN MARKET SIZE, BY SOURCE, 2021–2026(TON)

7.2 NATURAL SOURCE

7.2.1 INCREASED PREFERENCE FOR NATURAL PRODUCTS

TABLE 11 NATURAL: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 12 NATURAL: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(USD MILLION)

TABLE 13 NATURAL: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (TON)

TABLE 14 NATURAL: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(TON)

TABLE 15 NATURAL: ASTAXANTHIN MARKET SIZE, BY TYPE, 2016–2020 (USD MILLION)

TABLE 16 NATURAL: ASTAXANTHIN MARKET SIZE, BY TYPE, 2021–2026(USD MILLION)

7.2.2 PLANTS

7.2.2.1 Microalgae is a non-conventional source of protein due to its high protein content

7.2.3 YEAST & MICROBES

7.2.3.1 Use of yeast-produced astaxanthin in poultry, fishery, cosmetic, pharmaceutical, and food

7.2.4 MARINE ANIMALS

7.2.4.1 Shrimp, krill, salmon, and crustaceans are the major sources of astaxanthin

7.3 SYNTHETIC (PETROLEUM)

7.3.1 LOWER MANUFACTURING COST OF SYNTHETIC ASTAXANTHIN TO DRIVE THE MARKET GROWTH

TABLE 17 SYNTHETIC: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 18 SYNTHETIC: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(USD MILLION)

TABLE 19 SYNTHETIC: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (TON)

TABLE 20 SYNTHETIC: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(TON)

8 ASTAXANTHIN MARKET, BY FORM

8.1 INTRODUCTION

FIGURE 46 ASTAXANTHIN MARKET SHARE (VALUE), BY FORM, 2021 VS. 2026

TABLE 21 ASTAXANTHIN MARKET SIZE, BY FORM, 2016–2020 (USD MILLION)

TABLE 22 ASTAXANTHIN MARKET SIZE, BY FORM, 2021–2026(USD MILLION)

TABLE 23 ASTAXANTHIN MARKET SIZE, BY FORM, 2016–2020 (TON)

TABLE 24 ASTAXANTHIN MARKET SIZE, BY FORM, 2021–2026(TON)

8.2 DRY FORM

8.2.1 DRY FORMS ARE MAJORLY USED IN FEED FOOD & BEVERAGES AND COSMETICS

TABLE 25 DRY: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 26 DRY: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(USD MILLION)

TABLE 27 DRY: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (TON)

TABLE 28 DRY: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(TON)

8.3 LIQUID FORM

8.3.1 APPLICATION OF LIQUID ASTAXANTHIN IN SYRUPS AND TEXTURING AGENTS

TABLE 29 LIQUID: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 30 LIQUID: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(USD MILLION)

TABLE 31 LIQUID: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (TON)

TABLE 32 LIQUID: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(TON)

9 ASTAXANTHIN MARKET, BY METHOD OF PRODUCTION

9.1 INTRODUCTION

TABLE 33 ASTAXANTHIN MARKET SIZE, BY METHOD OF PRODUCTION, 2016–2020 (USD MILLION)

TABLE 34 ASTAXANTHIN MARKET SIZE, BY METHOD OF PRODUCTION, 2021–2026(USD MILLION)

FIGURE 47 ASTAXANTHIN MARKET SIZE, BY METHOD OF PRODUCTION, 2021 VS. 2026 (USD MILLION)

9.2 CHEMICAL SYNTHESIS

9.2.1 CHEMICAL SYNTHESIS OF ASTAXANTHIN MORE ECONOMICAL THAN NATURAL PRODUCTION

TABLE 35 CHEMICAL SYNTHESIS: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 36 CHEMICAL SYNTHESIS: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(USD MILLION)

9.3 MICROALGAE CULTIVATION

9.3.1 NATURAL ASTAXANTHIN FROM MICROALGAE IS IN HIGH DEMAND FOR DIETARY SUPPLEMENTS AND FOOD & BEVERAGES

TABLE 37 MICROALGAE CULTIVATION: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 38 MICROALGAE CULTIVATION: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(USD MILLION)

9.4 FERMENTATION

9.4.1 ASTAXANTHIN PRODUCED THROUGH FERMENTATION IS WIDELY USED IN AQUACULTURE

TABLE 39 FERMENTATION: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 40 FERMENTATION: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(USD MILLION)

9.5 EXTRACTION

9.5.1 EXTRACTION OF ASTAXANTHIN FROM SHRIMP WASTE IS HIGHLY ENERGY CONSUMING AND PRODUCE TOXIC BYPRODUCTS

TABLE 41 EXTRACTION: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 42 EXTRACTION: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(USD MILLION)

10 ASTAXANTHIN MARKET, BY APPLICATION

10.1 INTRODUCTION

FIGURE 48 ASTAXANTHIN MARKET, BY APPLICATION, 2021 VS. 2026 (USD MILLION)

TABLE 43 ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 44 ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026(USD MILLION)

10.2 COVID-19 IMPACT ON THE ASTAXANTHIN MARKET, BY APPLICATION

10.2.1 OPTIMISTIC SCENARIO

TABLE 45 ASTAXANTHIN MARKET SIZE, BY-APPLICATION, 2018–2021 (USD MILLION)

10.2.2 REALISTIC SCENARIO

TABLE 46 ASTAXANTHIN MARKET-SIZE, BY APPLICATION, 2018–2021 (USD MILLION)

10.2.3 PESSIMISTIC SCENARIO

TABLE 47 ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2018–2021 (USD MILLION)

10.3 FEED

10.3.1 ASTAXANTHIN MARKET FOR ANIMAL FEED FOCUSING MAINLY ON THE SYNTHETIC FORM

TABLE 48 FEED: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 49 FEED: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(USD MILLION)

10.4 DIETARY SUPPLEMENTS

10.4.1 RISING AWARENESS AMONG CONSUMERS FOR NATURAL HEALTH SUPPLEMENTS FUELING THE MARKET GROWTH

TABLE 50 DIETARY SUPPLEMENTS: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 51 DIETARY SUPPLEMENTS: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(USD MILLION)

10.5 FOOD & BEVERAGES

10.5.1 ASTAXANTHIN AIDS IN REDUCING THE RISK OF HEART ATTACK BY INCREASING THE GOOD HDL CHOLESTEROL

TABLE 52 FOOD & BEVERAGES: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 53 FOOD & BEVERAGES: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(USD MILLION)

10.6 COSMETICS

10.6.1 ASTAXANTHIN - A POTENT SOURCE OF ANTIOXIDANTS AND VITAMIN A

TABLE 54 COSMETICS: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 55 COSMETICS: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026(USD MILLION)

11 ASTAXANTHIN MARKET, BY REGION

11.1 INTRODUCTION

TABLE 56 ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 57 ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

11.2 COVID-19 IMPACT ON THE ASTAXANTHIN MARKET, BY REGION

11.2.1 OPTIMISTIC SCENARIO

TABLE 58 OPTIMISTIC SCENARIO: COVID-19 IMPACT ON THE ASTAXANTHIN MARKET SIZE, BY REGION, 2018–2021 (USD MILLION)

11.2.2 REALISTIC SCENARIO

TABLE 59 REALISTIC SCENARIO: COVID-19 IMPACT ON THE ASTAXANTHIN MARKET SIZE, BY REGION, 2018–2021 (USD MILLION)

11.2.3 PESSIMISTIC SCENARIO

TABLE 60 PESSIMISTIC SCENARIO: COVID-19 IMPACT ON THE ASTAXANTHIN MARKET, BY REGION, 2018–2021 (USD MILLION)

11.3 NORTH AMERICA

- FIGURE 49 NORTH AMERICAN ASTAXANTHIN MARKET: A SNAPSHOT
- TABLE 61 NORTH AMERICA: ASTAXANTHIN MARKET SIZE, BY COUNTRY, 2016–2020 (USD MILLION)
- TABLE 62 NORTH AMERICA: ASTAXANTHIN MARKET SIZE, BY COUNTRY, 2021–2026 (USD MILLION)
- TABLE 63 NORTH AMERICA: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2016–2020 (USD MILLION)
- TABLE 64 NORTH AMERICA: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2021–2026 (USD MILLION)
- TABLE 65 NORTH AMERICA: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2016–2020 (TONS)
- TABLE 66 NORTH AMERICA: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2021–2026 (TONS)
- TABLE 67 NORTH AMERICA: ASTAXANTHIN MARKET SIZE, BY FORM, 2016–2020 (USD MILLION)
- TABLE 68 NORTH AMERICA: ASTAXANTHIN MARKET SIZE, BY FORM, 2021–2026 (USD MILLION)
- TABLE 69 NORTH AMERICA: ASTAXANTHIN MARKET SIZE, BY FORM, 2016–2020 (TON)
- TABLE 70 NORTH AMERICA: ASTAXANTHIN MARKET SIZE, BY FORM, 2021–2026 (TON)
- TABLE 71 NORTH AMERICA: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)
- TABLE 72 NORTH AMERICA: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)
- TABLE 73 NORTH AMERICA: ASTAXANTHIN MARKET SIZE, BY METHOD OF PRODUCTION, 2016–2020 (USD MILLION)
- TABLE 74 NORTH AMERICA: ASTAXANTHIN MARKET SIZE, BY METHOD OF PRODUCTION, 2021–2026 (USD MILLION)

11.3.1 US

11.3.1.1 Astaxanthin is majorly used for pigmenting salmon, owing to which demand for astaxanthin is high in the US

TABLE 75 US: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 76 US: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

11.3.2 CANADA

11.3.2.1 The Canadian market has increased the natural color market for food applications in the country

TABLE 77 CANADA: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 78 CANADA: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

11.3.3 MEXICO

11.3.3.1 Strong presence of the food & beverage industry has driven the nutraceutical market growth

TABLE 79 MEXICO: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 80 MEXICO: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

11.4 ASIA PACIFIC

FIGURE 50 ASIA PACIFIC: ASTAXANTHIN MARKET SNAPSHOT

TABLE 81 ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY COUNTRY/REGION, 2016–2020 (USD MILLION)

TABLE 82 ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY COUNTRY/REGION, 2021–2026 (USD MILLION)

TABLE 83 ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2016–2020 (USD MILLION)

TABLE 84 ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2021–2026 (USD MILLION)

TABLE 85 ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2016–2020 (TON)

TABLE 86 ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2021–2026 (TON)

TABLE 87 ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY FORM, 2016–2020 (USD MILLION)

TABLE 88 ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY FORM, 2021–2026 (USD MILLION)

TABLE 89 ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY FORM, 2016–2020 (TON)

TABLE 90 ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY FORM, 2021–2026 (TON)

TABLE 91 ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 92 ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 93 ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY METHOD OF PRODUCTION, 2016–2020 (USD MILLION)

TABLE 94 ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY METHOD OF PRODUCTION, 2021–2026 (USD MILLION)**11.4.1 CHINA**

11.4.1.1 Increasing purchasing power of consumers led to a rise in demand for high-quality processed foods

TABLE 95 CHINA: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)**TABLE 96 CHINA: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)****11.4.2 INDIA**

11.4.2.1 Increasing consumption of poultry meat is leading to a rise in the demand for astaxanthin

TABLE 97 INDIA: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)**TABLE 98 INDIA: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)****11.4.3 AUSTRALIA & NEW ZEALAND**

11.4.3.1 As the aquaculture industry is growing, synthetic astaxanthin demand as a feed additive is also increasing

TABLE 99 AUSTRALIA & NEW ZEALAND: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)**TABLE 100 AUSTRALIA & NEW ZEALAND: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)****11.4.4 REST OF ASIA PACIFIC**

11.4.4.1 The emerging market for astaxanthin in the Asia Pacific is due to an increase in consumption of functional foods

TABLE 101 REST OF ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)**TABLE 102 REST OF ASIA PACIFIC: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)****11.5 EUROPE****TABLE 103 EUROPE: ASTAXANTHIN MARKET SIZE, BY COUNTRY, 2016–2020 (USD MILLION)****TABLE 104 EUROPE: ASTAXANTHIN MARKET SIZE, BY COUNTRY, 2021–2026 (USD MILLION)****TABLE 105 EUROPE: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2016–2020 (USD MILLION)****TABLE 106 EUROPE: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2021–2026 (USD MILLION)**

TABLE 107 EUROPE: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2016–2020 (TON)

TABLE 108 EUROPE: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2021–2026 (TON)

TABLE 109 EUROPE: ASTAXANTHIN MARKET SIZE, BY FORM, 2016–2020 (USD MILLION)

TABLE 110 EUROPE: ASTAXANTHIN MARKET SIZE, BY FORM, 2021–2026 (USD MILLION)

TABLE 111 EUROPE: ASTAXANTHIN MARKET SIZE, BY FORM, 2016–2020 (TON)

TABLE 112 EUROPE: ASTAXANTHIN MARKET SIZE, BY FORM, 2021–2026 (TON)

TABLE 113 EUROPE: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 114 EUROPE: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 115 EUROPE: ASTAXANTHIN MARKET SIZE, BY METHOD OF PRODUCTION, 2016–2020 (USD MILLION)

TABLE 116 EUROPE: ASTAXANTHIN MARKET SIZE, BY METHOD OF PRODUCTION, 2021–2026 (USD MILLION)

11.5.1 GERMANY

11.5.1.1 Dairy and pork feed consumption driving the demand for astaxanthin

TABLE 117 GERMANY: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 118 GERMANY: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

11.5.2 UK

11.5.2.1 Increased focus on the food & beverage industry boosts the market growth

TABLE 119 UK: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 120 UK: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

11.5.3 FRANCE

11.5.3.1 France exports high-quality shellfish to US and shrimp to Japan

TABLE 121 FRANCE: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 122 FRANCE: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

11.5.4 ITALY

11.5.4.1 High industrial applications in the feed and cosmetic industries

TABLE 123 ITALY: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020

(USD MILLION)

TABLE 124 ITALY: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026

(USD MILLION)

11.5.5 SPAIN

11.5.5.1 Astaxanthin is majorly used as a natural colorant in Spain

TABLE 125 SPAIN: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020

(USD MILLION)

TABLE 126 SPAIN: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026

(USD MILLION)

11.5.6 REST OF EUROPE

TABLE 127 REST OF EUROPE: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 128 REST OF EUROPE: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

11.6 REST OF THE WORLD (ROW)

TABLE 129 ROW: ASTAXANTHIN MARKET SIZE, BY REGION, 2016–2020 (USD MILLION)

TABLE 130 ROW: ASTAXANTHIN MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

TABLE 131 ROW: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2016–2020 (USD MILLION)

TABLE 132 ROW: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2021–2026 (USD MILLION)

TABLE 133 ROW: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2016–2020 (TON)

TABLE 134 ROW: ASTAXANTHIN MARKET SIZE, BY SOURCE, 2021–2026 (TON)

TABLE 135 ROW: ASTAXANTHIN MARKET SIZE, BY FORM, 2016–2020 (USD MILLION)

TABLE 136 ROW: ASTAXANTHIN MARKET SIZE, BY FORM, 2021–2026 (USD MILLION)

TABLE 137 ROW: ASTAXANTHIN MARKET SIZE, BY FORM, 2016–2020 (TON)

TABLE 138 ROW: ASTAXANTHIN MARKET SIZE, BY FORM, 2021–2026 (TON)

TABLE 139 ROW: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 140 ROW: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

TABLE 141 ROW: ASTAXANTHIN MARKET SIZE, BY METHOD OF PRODUCTION, 2016–2020 (USD MILLION)

TABLE 142 ROW: ASTAXANTHIN MARKET SIZE, BY METHOD OF PRODUCTION, 2021–2026 (USD MILLION)

11.6.1 SOUTH AMERICA

11.6.1.1 Increasing industrialization of the aquafeed industry

TABLE 143 SOUTH AMERICA: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 144 SOUTH AMERICA: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

11.6.2 MIDDLE EAST

11.6.2.1 Growth in the natural astaxanthin production due to the presence of key players in the region

TABLE 145 MIDDLE EAST: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 146 MIDDLE EAST: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

11.6.3 AFRICA

11.6.3.1 Large livestock population is driving the market for astaxanthin

TABLE 147 AFRICA: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2016–2020 (USD MILLION)

TABLE 148 AFRICA: ASTAXANTHIN MARKET SIZE, BY APPLICATION, 2021–2026 (USD MILLION)

12 COMPETITIVE LANDSCAPE

12.1 OVERVIEW

12.2 MARKET SHARE ANALYSIS

TABLE 149 ASTAXANTHIN MARKET: DEGREE OF COMPETITION

12.3 KEY PLAYER STRATEGIES

12.4 HISTORICAL REVENUE ANALYSIS OF KEY PLAYERS

FIGURE 51 FIVE-YEAR SEGMENTAL REVENUE ANALYSIS OF KEY PLAYERS IN THE MARKET, 2016–2020 (USD BILLION)

12.5 COVID-19-SPECIFIC COMPANY RESPONSE

12.5.1 BASF SE

12.5.2 CYANOTECH CORPORATION

12.5.3 DIVI'S LABORATORIES LTD.

12.5.4 COMPANY EVALUATION QUADRANT (KEY PLAYERS)

12.5.4.1 Stars

12.5.4.2 Emerging leaders

12.5.4.3 Pervasive players

12.5.4.4 Participants

FIGURE 52 ASTAXANTHIN MARKET: COMPANY EVALUATION QUADRANT, 2020

(KEY PLAYERS)**12.5.5 PRODUCT FOOTPRINT**

TABLE 150 COMPANY SOURCE FOOTPRINT

TABLE 151 COMPANY APPLICATION FOOTPRINT

TABLE 152 COMPANY REGION FOOTPRINT

TABLE 153 COMPANY PRODUCT FOOTPRINT

12.5.6 COMPETITIVE EVALUATION QUADRANT (OTHER PLAYERS)

12.5.6.1 Progressive companies

12.5.6.2 Starting blocks

12.5.6.3 Responsive companies

12.5.6.4 Dynamic companies

**FIGURE 53 ASTAXANTHIN MARKET: COMPANY EVALUATION QUADRANT, 2020
(OTHER PLAYERS)****12.6 PRODUCT LAUNCHES, DEALS, AND OTHER DEVELOPMENTS****12.6.1 PRODUCT LAUNCHES**

TABLE 154 PRODUCT LAUNCHES, AUGUST 2018–OCTOBER 2020

12.6.2 DEALS

TABLE 155 DEALS, SEPTEMBER 2017–DECEMBER 2020

12.6.3 OTHERS

TABLE 156 EXPANSIONS, APRIL 2017–NOVEMBER 2018

13 COMPANY PROFILES**(Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View)*****13.1 KEY PLAYERS****13.1.1 KONINKLIJKE DSM N.V.**

TABLE 157 KONINKLIJKE DSM N.V.: BUSINESS OVERVIEW

FIGURE 54 KONINKLIJKE DSM N.V.: COMPANY SNAPSHOT

TABLE 158 KONINKLIJKE DSM N.V.: PRODUCTS OFFERED

TABLE 159 ASTAXANTHIN MARKET: DEALS, SEPTEMBER 2017–OCTOBER 2020

TABLE 160 ASTAXANTHIN MARKET: OTHERS, APRIL 2017

13.1.2 BASF SE

TABLE 161 BASF SE: BUSINESS OVERVIEW

FIGURE 55 BASF SE: COMPANY SNAPSHOT

TABLE 162 BASF SE: PRODUCTS OFFERED

TABLE 163 ASTAXANTHIN MARKET: PRODUCT LAUNCHES, AUGUST 2018

TABLE 164 ASTAXANTHIN MARKET: DEALS, DECEMBER 2020

13.1.3 CYANOTECH CORPORATION

TABLE 165 CYANOTECH CORPORATION: BUSINESS OVERVIEW
FIGURE 56 CYANOTECH CORPORATION: COMPANY SNAPSHOT
TABLE 166 CYANOTECH CORPORATION: PRODUCTS OFFERED
TABLE 167 ASTAXANTHIN MARKET: PRODUCT LAUNCHES, OCTOBER 2020
TABLE 168 ASTAXANTHIN MARKET: OTHERS, NOVEMBER 2018
13.1.4 OTSUKA HOLDINGS CO., LTD.
TABLE 169 OTSUKA HOLDINGS CO., LTD.: BUSINESS OVERVIEW
FIGURE 57 OTSUKA HOLDINGS CO., LTD.: COMPANY SNAPSHOT
TABLE 170 OTSUKA HOLDINGS CO., LTD.: PRODUCTS OFFERED
13.1.5 DIVI'S LABORATORIES LTD.
TABLE 171 DIVI'S LABORATORIES LTD.: BUSINESS OVERVIEW
FIGURE 58 DIVI'S LABORATORIES LTD.: COMPANY SNAPSHOT
TABLE 172 DIVI'S LABORATORIES LTD.: PRODUCTS OFFERED
13.1.6 VALENSA INTERNATIONAL
13.1.6.1 Business overview
TABLE 173 VALENSA INTERNATIONAL: BUSINESS OVERVIEW
TABLE 174 VALENSA INTERNATIONAL: PRODUCTS OFFERED
13.1.7 FUJI CHEMICAL INDUSTRIES CO., LTD.
TABLE 175 FUJI CHEMICAL INDUSTRIES CO., LTD.: BUSINESS OVERVIEW
TABLE 176 FUJI CHEMICAL INDUSTRIES CO., LTD.: PRODUCTS OFFERED
13.1.8 BEIJING GINGKO GROUP
TABLE 177 BEIJING GINGKO GROUP: BUSINESS OVERVIEW
TABLE 178 BEIJING GINGKO GROUP: PRODUCTS OFFERED
13.1.9 CARDAX, INC.
TABLE 179 CARDAX, INC.: BUSINESS OVERVIEW
FIGURE 59 CARDAX, INC.: COMPANY SNAPSHOT
TABLE 180 CARDAX, INC.: PRODUCTS OFFERED
TABLE 181 ASTAXANTHIN MARKET: DEALS, FEBRUARY 2018
13.1.10 PIVEG, INC.
TABLE 182 PIVEG, INC.: BUSINESS OVERVIEW
TABLE 183 PIVEG, INC.: PRODUCTS OFFERED
13.2 OTHER PLAYERS
13.2.1 FENCHEM BIOTEK LTD.
TABLE 184 FENCHEM BIOTEK LTD.: BUSINESS OVERVIEW
TABLE 185 FENCHEM BIOTEK LTD.: PRODUCTS OFFERED
13.2.2 ALGATECH LTD.
TABLE 186 ALGATECH LTD.: BUSINESS OVERVIEW
TABLE 187 ALGATECH LTD.: PRODUCTS OFFERED
TABLE 188 ASTAXANTHIN MARKET: PRODUCT LAUNCHES, MAY 2019

TABLE 189 ASTAXANTHIN MARKET: DEALS, MAY 2018–MARCH 2019

13.2.3 SUPREME BIOTECHNOLOGIES

TABLE 190 SUPREME BIOTECHNOLOGIES: BUSINESS OVERVIEW

TABLE 191 SUPREME BIOTECHNOLOGIES: PRODUCTS OFFERED

13.2.4 IGENE BIOTECHNOLOGY INC.

TABLE 192 IGENE BIOTECHNOLOGY INC.: BUSINESS OVERVIEW

TABLE 193 IGENE BIOTECHNOLOGY INC.: PRODUCTS OFFERED

13.2.5 ALGAMO

TABLE 194 ALGAMO: BUSINESS OVERVIEW

TABLE 195 ALGAMO: PRODUCTS OFFERED

13.2.6 BIOGENIC CO., LTD.

13.2.7 ASTAMAZ NZ LTD.

13.2.8 ALGALIF

13.2.9 ALGAE TO OMEGA

13.2.10 ALGAE HEALTH SCIENCES, INC.

*Details on Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View might not be captured in case of unlisted companies.

14 ADJACENT & RELATED MARKETS

14.1 INTRODUCTION

14.2 LIMITATIONS

14.3 CAROTENOIDS MARKET

14.3.1 MARKET DEFINITION

14.3.2 MARKET OVERVIEW

14.3.3 CAROTENOIDS MARKET, BY APPLICATION

TABLE 196 CAROTENOIDS MARKET SIZE, BY APPLICATION, 2017–2026 (USD MILLION)

TABLE 197 CAROTENOIDS MARKET SIZE, BY APPLICATION, 2017–2026 (TON)

14.3.4 CAROTENOIDS MARKET, BY REGION

TABLE 198 CAROTENOIDS MARKET SIZE, BY REGION, 2017–2026 (USD MILLION)

TABLE 199 CAROTENOIDS MARKET SIZE, BY REGION, 2017–2026 (TON)

14.4 FEED PIGMENTS MARKET

14.4.1 LIMITATIONS

14.4.2 MARKET DEFINITION

14.4.3 MARKET OVERVIEW

14.4.4 FEED PIGMENTS MARKET, BY TYPE

TABLE 200 FEED PIGMENTS MARKET SIZE, BY TYPE, 2013–2020 (USD MILLION)

TABLE 201 FEED PIGMENTS MARKET SIZE, BY CAROTENOID TYPE, 2013–2020

(USD MILLION)

14.4.5 FEED PIGMENTS MARKET, BY REGION

14.4.5.1 Introduction

TABLE 202 FEED PIGMENTS MARKET SIZE, BY REGION, 2013–2020 (USD MILLION)

TABLE 203 FEED PIGMENTS MARKET SIZE, BY REGION, 2013–2020 (KT)

15 APPENDIX

15.1 DISCUSSION GUIDE

15.2 KNOWLEDGE STORE: MARKET SAND MARKETS' SUBSCRIPTION PORTAL

15.3 AVAILABLE CUSTOMIZATIONS

15.4 RELATED REPORTS

15.5 AUTHOR DETAILS

I would like to order

Product name: Astaxanthin Market by Source (Natural, Synthetic), Form (Dry, Liquid), Method of Production (Microalgae Cultivation, Chemical Synthesis, Fermentation), Application (Dietary Supplements, Food & Beverages, Cosmetics), and Region - Global Forecast to 2026

Product link: <https://marketpublishers.com/r/A0709689C82EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A0709689C82EN.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