

Global Astaxanthin Market – Sources, Technologies and Applications

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Abstracts

REPORT SYNOPSIS

Astaxanthin is 550 times stronger than vitamin E, and 6,000 times stronger than vitamin C in regard to antioxidant power. Due to its powerful antioxidant properties, astaxanthin proved to have benefits on various health conditions including inflammation, diabetics, cardiovascular, vision and CNS conditions. Astaxanthin has been widely used in aquaculture industry for pigmentation of salmon, trout and shrimps; used for its antioxidant and other health benefits in nutraceutical industry; used in cosmetics for its skin care and anti-aging properties; and also used for fortification of foods and beverages.

The global nutraceuticals industry is estimated to have consumed the largest volume of Haematococcus pluvialis (H. pluvialis) microalgae natural astaxanthin in 2017 accounting for 54.8% which is likely to reach 190 metric tons by 2024. However, the emerging market of Food & Beverages for H. pluvialis microalgae astaxanthin consumption will witness the fastest CAGR between the period 2017 and 2024.

Research Findings & Coverage

Global Astaxanthin market is explored in this report with respect to key types (based on raw material source) and major end-use applications

The study extensively analyzes each type and end-use application by key country for all major regions globally

Astaxanthin from H. pluvialis Algae a Potential Key Ingredient in Sports Nutrition



Food and Beverages Get Supercharged with Algae Astaxanthin

Algae Astaxanthin Sector Posts a Scenario of Mixed Developments

Natural Astaxanthin's High Cost an Impediment to its Growth in the Aqua Feed Industry

Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments

Major companies profiled – 37

The industry guide includes the contact details for 63 companies

PRODUCT OUTLINE

The report analyzes the market for the key types of Astaxanthin (based on raw materials) including:

Synthetic

Microalgae

Bacteria

Major application areas of Astaxanthin analyzed comprise the following:

Nutraceuticals

Aqua & Animal Feed

Cosmetics

Food & Beverages



Analysis Period, Units and Growth Rates

The report reviews, analyzes and projects the global Astaxanthin market for the period 2014-2024 in terms of volume consumption in metric tons, market value in US\$ and the compound annual growth rates (CAGRs) projected from 2017 through 2024

Geographic Coverage	
	North America
	South America
	Europe
	Japan
	Asia-Pacific (Excluding Japan)
	Rest of World



Contents

PART A: GLOBAL MARKET PERSPECTIVE

1. INTRODUCTION

- 1.1 Product Outline
 - 1.1.1 What is Astaxanthin?
 - 1.1.1.1 Singlet Oxygen Quenching Ability
 - 1.1.1.2 Antioxidant Properties of Astaxanthin
 - 1.1.1.2.1 Antioxidant Power of Astaxanthin in Salmon
 - 1.1.1.3 Bioavailability
- 1.1.1.4 Pharmacokinetics of Astaxanthin: Absorption, Distribution, Metabolism and Elimination (ADME)
 - 1.1.1.5 Safety of Astaxanthin
 - 1.1.2 The Chemistry of Astaxanthin
 - 1.1.3 Health Benefits of Astaxanthin
 - 1.1.3.1 Powerful Antioxidant
 - 1.1.3.2 Effect on Diabetes Related Obesity
 - 1.1.3.3 Improving and Protecting Cardiovascular Health
 - 1.1.3.4 Delays Brain Aging
 - 1.1.3.5 Stimulator of Eye Health
 - 1.1.3.6 Prevention of Early Stage Cancer
 - 1.1.3.7 Immune System Booster
 - 1.1.3.8 Powerful Skin Protector
 - 1.1.3.9 Benign Prostatic Hyperplasia
 - 1.1.3.10 Infertility
 - 1.1.3.11 Ulceration
 - 1.1.4 Sources of Astaxanthin
 - 1.1.4.1 Commercial Sources of Astaxanthin
 - 1.1.4.1.1 Synthetic Astaxanthin
 - 1.1.4.1.2 Natural Source Astaxanthin
 - 1.1.4.1.2.1 Yeast Xanthophyllomyces dendrorhous (Phaffia rhodozyma)
 - 1.1.4.1.2.2 Bacteria Paracoccus carotinifaciens
 - 1.1.4.1.2.3 Microalgae Haematococcus pluvialis
 - 1.1.4.1.2.4 Shrimp and Other Crustaceans
 - 1.1.5 Commercial Applications of Astaxanthin
 - 1.1.6 Astaxanthin Product Forms
 - 1.1.6.1 Synthetic Astaxanthin



- 1.1.6.2 Natural Source Astaxanthin
 - 1.1.6.2.1 Haematococcus pluvialis Microalgae
 - 1.1.6.2.1.1 Dried Algae Meal or Biomass
 - 1.1.6.2.1.2 Oil or Oleoresin
 - 1.1.6.2.1.3 Microencapsulated Powder or Beadlets
 - 1.1.6.2.1.4 Cold Water Dispersible (CWD) Powder
 - 1.1.6.2.1.5 Emulsion or Liquid
 - 1.1.6.2.2 Other Natural Sources

2. COMMERCIAL ASTAXANTHIN PRODUCTION TECHNOLOGIES

- 2.1 Synthetic Astaxanthin Production
 - 2.1.1 DSM (Roche) Synthesis Process
 - 2.1.2 BASF Synthesis Process
 - 2.1.3 Zhejiang NHU Synthesis Process
- 2.2 Astaxanthin Production from Natural Sources
 - 2.2.1 Yeast (Xanthophyllomyces dendrorhous/Phaffia rhodozyma)
- 1. Igene Biotechnology, Inc.

Phaffia rhodozyma strains

Mutagenesis of Phaffia rhodozyma yeast cells

Antimycin Treatment

Fermentation

Cell Recovery and Product Preparation

2. Archer Daniels Midland (ADM)

Phaffia rhodozyma strains

Mutagenesis of Phaffia rhodozyma yeast cells

Screening and Fermentation

Cultivation Techniques

Cell Recovery and Product Preparation

2.2.2 Bacteria (Paracoccus carotinifaciens and Lactobacillus sp.)

1. JX Nippon Oil & Energy Corporation

Bacteria Strain

Mutagenesis of Paracoccus carotinifaciens

Fermentation

Cell Recovery and Product Preparation

Astaxanthin Extraction Process

Extraction with Ethanol

Micellization and Precipitation

Precipitation and Heat Washing



Pulverization/Drying

2. Guangzhou UDA Biotech Development Co., Ltd

Bacteria Strain

Fermentation

2.2.3 Shrimp Shells

2.2.3.1 BlueOcean NutraSciences Inc

2.2.4 Microalgae (Haematococcus pluvialis)

Strain Selection

Cultivation

Harvesting

Drying and Milling

Extraction and Purification

2.2.4.1 Haematococcus Pluvialis Cultivation Technologies

2.2.4.1.1 Closed PBRs Combined with Raceway Ponds

1. Cyanotech Corporation

Algae Strain

Algae Cultivation

Harvesting Cultivated Cells

Product Preparation and Extraction

2. Parry Nutraceuticals Ltd

Algae Strains

Algae Cultivation

Harvesting & Product Preparation

3. Jingzhou Natural Astaxanthin Inc

Algae Cultivation

Extraction

- 4. Atacama Bio Natural Products S.A.
- 5. Heliae Development LLC

Helix Seed Production Systems

Volaris Commercial Production Platform

Harvesting & Extraction

2.2.4.1.2 Closed Tubular Photo-bioreactors

1. Algatechnologies Ltd

Algae Cultivation

Phase I Cultivation

Phase II Cultivation

Harvesting Cultivated Cells

Product Preparation and Extraction

2. Beijing Gingko Group Biological Technology Co. Ltd (BGG)



- 3. Yunnan Alphy Biotech Co., Ltd.
 - 2.2.4.1.3 Closed Tank/Cylinder Photo-bioreactors
- 1. Fuji Chemical Industry Co., Ltd (AstaReal Co., Ltd)

Algae Strain

Algae Cultivation

Harvesting Cultivated Cells

Product Preparation and Extraction

- 2. Algae Health (SI?inte Alga Teoranta)
- 3. Algae to Omega Holdings, Inc.

Algae Strain

Creating Starter Culture from Seed Culture

Creating Working Culture from Starter Culture

Production Process

Harvesting

- 2.2.4.1.4 Closed Plastic Bag Photo-bioreactors
- 1. Supreme Health New Zealand Ltd
 - 2.2.4.1.5 Closed Flat Panel Photo-bioreactors
- 1. Fraunhofer IGB & Subitec GmbH

3. KEY MARKET TRENDS

- 3.1 Astaxanthin from H. pluvialis Algae a Potential Key Ingredient in Sports Nutrition
- 3.2 Food and Beverages Get Supercharged with Algae Astaxanthin
- 3.3 Synthetic Astaxanthin Supplements Raise Concerns for Natural Astaxanthin Manufacturers
- 3.4 Natural Astaxanthin's High Cost an Impediment to its Growth in the Aqua Feed Industry
- 3.5 Natural Astaxanthin Producers' Strategies Tending Towards Vertical Integration and Business Expansion
- 3.6 Algae Astaxanthin Sector Posts a Scenario of Mixed Developments

4. PATENT PORTFOLIO

- 4.1 Important Patents for Chemical Synthesis of Astaxanthin
- 4.2 Important Patents for Haematococcus pluvialis Cultivation
- 4.3 Select Patents for Haematococcus pluvialis Downstream Processes
- 4.4 Select Patents for Astaxanthin from Other Natural Sources
- 4.5 Important Patents for Astaxanthin Applications



5. COMPANY PROFILES

SYNTHETIC ASTAXANTHIN

BASF SE (Germany)

Divis Laboratories Limited (India)

Royal DSM NV (The Netherlands)

Zhejiang Medicine Co., Ltd. (China)

Zhejiang NHU Co., Ltd. (China)

NATURAL SOURCE ASTAXANTHIN

Haematococcus pluvialis Microalgae Astaxanthin Manufacturers

Algae to Omega Holdings Inc (United States)

Algaetech International Sdn Bhd (Malaysia)

Algalif Iceland EHF (Iceland)

Algamo Ltd. (Czech Republic)

Algatechnologies Ltd. (Israel)

Alvita Corporation (Japan)

Andexs Biotechnology SRL (Peru)

AstaMaz NZ Ltd (New Zealand)

Atacama Bio Natural Products SA (Chile)

Beijing Gingko Group (BGG) (China)

Algae Health Sciences, Inc. (United States)

Solix Algredients, Inc. (United States)

Biogenic Co., Ltd. (Japan)

MC Biotech Sdn. Bhd. (Brunei)

Cyanotech Corporation (United States)

E.I.D Parry (India) Ltd. (India)

Alimtec SA (Chile)

Valensa International (U. S. Nutraceuticals LLC) (United States)

Ennature Biopharma - India Glycols Limited (India)

Fenchem Biotek Ltd. (China)

Fuji Chemical Industry Co., Ltd. (Japan)

Astareal Co., Ltd. (Japan)

AstaReal AB (Sweden)

AstaReal, Inc. (United States)

Garden State Bioenterprises LLC (GS BIOE) (United States)

Heliae Development LLC (United States)

Inner Mongolia Ever Brilliance Biotechnology Co., Ltd. (KEB) (China)

Innobio Ltd (China)

Jingzhou Natural Astaxanthin Inc. (China)



MBD Industries Limited (Australia)

Piveg, Inc. (United States)

Regenurex Health Corporation (formerly AlgaeCan Biotech) (Canada)

Shandong Wefirst Biotechnology Co., Ltd. (China)

Supreme Health New Zealand Limited (New Zealand)

Tianjin Norland Biotech Co., Ltd. (China)

Yunnan Alphy Biotech Co., Ltd. (China)

Cultivation Technology, Extraction and Other Services Providers

Algaebiotech (The Netherlands)

Evodos BV (The Netherlands)

Fraunhofer Institute for Interfacial Engineering and Biotechnology (IGB) (Germany)

Originclear, Inc. (United States)

Olas - All Things Algae, LLC (United States)

Pharmalink Extracts Ltd (New Zealand)

Phasex Corporation (United States)

Radient Inc. (Canada)

Subitec GmbH (Germany)

Thar Process, Inc. (United States)

Other Natural Astaxanthin Manufacturers

JX Nippon Oil & Energy Corporation (Japan)

NextFerm Technologies Ltd (Israel)

6. KEY BUSINESS TRENDS

Israeli biotech startup, NextFerm Technologies, to commercialize Phaffia based Astaxanthin

BGG and Solix Algredients Merged their Algae Ingredients Operations

Algatechnologies Invests in New Zealand based Astaxanthin Producer Supreme Health AstaReal's Natural Astaxanthin for Sports Nutrition Market Exhibited at Vitafoods Europe 2018

Algatech and Sphera Join Forces to Develop Innovative Functional Ingredient Formats Algalif Expands into Asia-Pacific Market and Introduces Astaxanthin Finished Products Subitec Ships Photobioreactor System to Soka University in Japan

AlgaeHealth's AstaZine Natural Astaxanthin Tested 100% Glyphosate-Free to Extreme Level of Detection

Nutrex Hawaii's BioAstin Hawaiian Astaxanthin and MD Formulas Verified by IGEN

Cardax and HECL Form ZanthoSyn Distribution Pact for China

KnipBio Meal, Premium Aquafeed Ingredient Developed by KnipBio

Non-GMO Accreditation for Algalif's Astal?f 5% and 10% Oleoresin Products



NOW Foods Formed Astaxanthin Distribution Pact with AlgaeHealth Felcra and Algatech International Partner on Commercial Production of Algae Algatech's AstaPure Natural Astaxanthin Verified by the Non-GMO Project Two New US Patents Granted to Valensa

Algatechnologies Starts Marketing its AstaPure Astaxanthin in Brazil Cyanotech's BioAstin SCE 5 and Vegan BioAstin Soft Gels are Now Halal Certified US PTO Granted a Patent to Valensa's EyePro MD Formula

NIH Chose Cardax's Astaxanthin Compound for Anti-Aging Interventions Testing Program

Valensa Became Part of the Algae Biomass Organization

Lycored Formed a Joint Venture with Algatechnologies for Astaxanthin Distribution Subitec Builds New Astaxanthin Production Facility for Algamo

MBD Energy to Complete the Construction of Australia's First Astaxanthin Plant US FDA Granted Approval for Parry Nutraceuticals' Indian Microalgae Facility Algatech's AstaPure Natural Astaxanthin Received NOP Certification from the USDA Agricultural Marketing Service

Algalif Receives EU Novel Food Certification for its Natural Astaxanthin California GOLD Nutrition Astaxanthin Supplement Caps with TruAzta Label now Available on iHerb

Vegan and Vegetarian Certifications Granted for Heliae Astaxanthin Products
Algalif Introduces its Astalif Astaxanthin at Vitafoods Europe 2017
Launch of Algatechnologies' Whole-Algae AstaPure Natural Astaxanthin at Vitafoods
2017

AstaReal, the First and Only Preferred Supplier of Natural Astaxanthin Recognized by NASC

Algaetech Targets a Daily Sale of 500,000 Astaxanthin Eggs in the Next 24 Months Both FDA GRAS and EU Novel Food Certifications for INNOBIO's Astaxanthin Food Safety Authority of Ireland Approved AstaZine Natural Astaxanthin as a Novel Food

Heliae's Joint Venture, Alvita Starts Astaxanthin Operations in Japan New NDI Notification Submitted by AlgaeHealth for Use of AstaZine at a Daily Dose of Over 12mg

NSF International Granted GMP Registration to AstaReal USA Mitsubishi Corporation Subsidiary MC Biotech Opens Astaxanthin Production Facility in Brunei

Canadian Astaxanthin Producer, Regenurex Health Corporation's Astaxanthin is rebranded as Regenurex, replacing AstaVantage

Cyanotech's BioAstin SCE Products are Now Non-GMO Project Verified
Astavita Develops a New Astaxanthin Formulation AstaMed MYO for Clinical Dietary



Management of Sarcopenia

Cardax Introduces ZanthoSyn Synthetic Astaxanthin Supplement

Launch of Valensa's Flex Pro ES Chewables

Algae Health Sciences, Inc is the New Name for BGG's Algae Subsidiary

BGG received a Notice of Trademark Infringement from ArcticFarma

Broadening of Taiwan Cement's Micro Algae Unit

Astarism for Skin Conditioning Introduced by Astavita

Solix Algredients Gets UL Registrar Certification for Solasta Astaxanthin

Commercial Launch of Astatude Astaxanthin by Algaetech International

Algaetech to Build its Second Astaxanthin Production Facility in Brunei

Withdrawal of AstaReal from NAXA

BGG to Broaden its Product Offering in Mexico

AstaReal Technologies Inc Merged into AstaReal Inc

AlgaeHealth's AstaZine Natural Astaxanthin gets FDA NDI Notification

Fuji Chemical Receives Halal and Kosher Certifications

AlgaeHealth's Astaxanthin Crop is Now Organic Certified

AstaSuper Natural Astaxanthin Feed Product Launched by Fenchem

Opening of BGG's Third Affiliate in Switzerland

AstaReal Natural Astaxanthin is now Non-GMO Project Verified

Frutarom and Algalo Industries Collaborate to Build a Modern Biotechnology Facility

Algatech and SCHOTT Signed a Deal to Gauge the Efficiency of Glass Tubing in PBR Systems

Broadening of Piveg's Carotenoid Production in Mexico

Supercritical Carbon Dioxide Extraction System Installed at Cyanotech's Facility in Kona, Hawaii

Heliae to Expand its Gilbert Algae Production Facility

7. GLOBAL MARKET OVERVIEW

- 7.1 Global Astaxanthin Market Overview by End-use Application
- 7.2 Global Astaxanthin Market Overview by Raw Material Source
 - 7.2.1 Synthetic Astaxanthin
 - 7.2.1.1 Synthetic Astaxanthin Market Overview by Global Region
 - 7.2.2 Natural Source Astaxanthin
 - 7.2.2.1 Microalgae (Haematococcus pluvialis) Astaxanthin
- 7.2.2.1.1 Microalgae (Haematococcus pluvialis) Astaxanthin Market Overview by End-use Application
- 7.2.2.1.2 Microalgae (Haematococcus pluvialis) Astaxanthin Market Overview by Global Region



- 7.2.2.1.3 Microalgae (Haematococcus pluvialis) Astaxanthin End-use Application Market Overview by Geographic Region
 - 7.2.2.1.3.1 Nutraceuticals
 - 7.2.2.1.3.2 Aqua & Animal Feed
 - 7.2.2.1.3.3 Cosmetics
 - 7.2.2.1.3.4 Food & Beverages
 - 7.2.2.2 Bacteria (Paracoccus carotinifaciens) Astaxanthin
- 7.2.2.2.1 Bacteria (Paracoccus carotinifaciens) Astaxanthin Market Overview by Global Region

PART B: REGIONAL MARKET PERSPECTIVE

Global Astaxanthin Market Overview by Geographic Region

REGIONAL MARKET OVERVIEW

8. NORTH AMERICA

- 8.1 North American Astaxanthin Market Overview by Raw Material Source
 - 8.1.1 Synthetic Astaxanthin
 - 8.1.1.1 Synthetic Astaxanthin Market Overview by North American Region
 - 8.1.2 Natural Source Astaxanthin
 - 8.1.2.1 Microalgae (Haematococcus pluvialis) Astaxanthin
- 8.1.2.1.1 United States Microalgae (Haematococcus pluvialis) Astaxanthin Market Overview by End-use Application
 - 8.1.2.2 Bacteria (Paracoccus carotinifaciens) Astaxanthin

9. EUROPE

- 9.1 European Astaxanthin Market Overview by Raw Material Source
 - 9.1.1 Synthetic Astaxanthin
 - 9.1.1.1 Synthetic Astaxanthin Market Overview by European Region
 - 9.1.2 Natural Source Astaxanthin
 - 9.1.2.1 Microalgae (Haematococcus pluvialis) Astaxanthin
- 9.1.2.1.1 European Microalgae (Haematococcus pluvialis) Astaxanthin Market Overview by End-use Application
 - 9.1.2.2 Bacteria (Paracoccus carotinifaciens) Astaxanthin

10. JAPAN



- 10.1 Japanese Astaxanthin Market Overview by Raw Material Source
 - 10.1.1 Synthetic Astaxanthin
 - 10.1.2 Natural Source Astaxanthin
 - 10.1.2.1 Microalgae (Haematococcus pluvialis) Astaxanthin
- 10.1.2.1.1 Japanese Microalgae (Haematococcus pluvialis) Astaxanthin Market Overview by End-use Application
 - 10.1.2.2 Bacteria (Paracoccus carotinifaciens) Astaxanthin

11. ASIA-PACIFIC (EXCLUDING JAPAN)

- 11.1 Asia-Pacific Astaxanthin Market Overview by Raw Material Source
 - 11.1.1 Synthetic Astaxanthin
 - 11.1.1.1 Synthetic Astaxanthin Market Overview by Asia-Pacific Region
 - 11.1.2 Natural Source Astaxanthin
 - 11.1.2.1 Microalgae (Haematococcus pluvialis) Astaxanthin
- 11.1.2.1.1 Asia-Pacific Microalgae (Haematococcus pluvialis) Astaxanthin Market Overview by End-use Application

12. SOUTH AMERICA

- 12.1 South American Astaxanthin Market Overview by Raw Material Source
 - 12.1.1 Synthetic Astaxanthin
 - 12.1.1.1 Synthetic Astaxanthin Market Overview by South American Region
 - 12.1.2 Natural Source Astaxanthin
 - 12.1.2.1 Microalgae (Haematococcus pluvialis) Astaxanthin
 - 12.1.2.2 Bacteria (Paracoccus carotinifaciens) Astaxanthin

13. REST OF WORLD

13.1 Rest of World Astaxanthin Market Overview by Raw Material Source

PART C: GUIDE TO THE INDUSTRY

PART D: ANNEXURE

1. RESEARCH METHODOLOGY

2. FEEDBACK



CHARTS & GRAPHS

PART A: GLOBAL MARKET PERSPECTIVE

Chart 1: Global Astaxanthin Market (2017 & 2024) by Raw Material Source in Metric Tons

Chart 2: Global Astaxanthin Market (2017 & 2024) by Raw Material Source in USD Million

Chart 3: Global Haematococcus pluvialis Microalgae Astaxanthin Market (2017 & 2024) by End-use Application in Metric Tons

Chart 4: Global Haematococcus pluvialis Microalgae Astaxanthin Market (2027 & 2024) by End-use Application in USD Million

Chart 5: Global Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 6: Global Astaxanthin Market Analysis (2014-2024) by End-use Application -

Aqua & Animal Feed, Nutraceuticals, Cosmetics and Food & Beverages in Metric Tons

Chart 7: Glance at 2014, 2017 and 2024 Global Astaxanthin Volume Market Share (%)

by End-use Application - Aqua & Animal Feed, Nutraceuticals, Cosmetics and Food & Beverages

Chart 8: Global Astaxanthin Market Analysis (2014-2024) by End-use Application -

Aqua & Animal Feed, Nutraceuticals, Cosmetics and Food & Beverages in USD Million

Chart 9: Glance at 2014, 2017 and 2024 Global Astaxanthin Value Market Share (%) by

End-use Application - Aqua & Animal Feed, Nutraceuticals, Cosmetics and Food & Beverages

Chart 10: Global Astaxanthin Market Analysis (2014-2024) by Raw Material Source - Synthetic, Microalgae and Bacteria in Metric Tons

Chart 11: Glance at 2014, 2017 and 2024 Global Astaxanthin Volume Market Share (%) by Raw Material Source - Synthetic, Microalgae and Bacteria

Chart 12: Global Astaxanthin Market Analysis (2014-2024) by Raw Material Source - Synthetic, Microalgae and Bacteria in USD Million

Chart 13: Glance at 2014, 2017 and 2024 Global Astaxanthin Value Market Share (%) by Raw Material Source - Synthetic, Microalgae and Bacteria

Chart 14: Global Synthetic Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 15: Global Synthetic Astaxanthin Market Analysis (2014-2024) by Geographic Region - North America, South America, Europe, Asia-Pacific and Rest of World in Metric Tons

Chart 16: Glance at 2014, 2017 and 2024 Global Synthetic Astaxanthin Volume Market



Share (%) by Geographic Region - North America, South America, Europe, Asia-Pacific and Rest of World

Chart 17: Global Synthetic Astaxanthin Market Analysis (2014-2024) by Geographic Region - North America, South America, Europe, Asia-Pacific and Rest of World in USD Million

Chart 18: Glance at 2014, 2017 and 2024 Global Synthetic Astaxanthin Value Market Share (%) by Geographic Region - North America, South America, Europe, Asia-Pacific and Rest of World

Chart 19: Global Haematococcus pluvialis Microalgae Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 20: Global Haematococcus pluvialis Microalgae Astaxanthin Market Analysis (2014-2024) by End-use Application - Nutraceuticals, Aqua & Animal Feed, Cosmetics and Food & Beverages in Metric Tons

Chart 21: Glance at 2014, 2017 and 2024 Global Haematococcus pluvialis Microalgae Astaxanthin Volume Market Share (%) by End-use Application - Nutraceuticals, Aqua & Animal Feed, Cosmetics and Food & Beverages

Chart 22: Global Haematococcus pluvialis Microalgae Astaxanthin Market Analysis (2014-2024) by End-use Application - Nutraceuticals, Aqua & Animal Feed, Cosmetics and Food & Beverages in USD Million

Chart 23: Glance at 2014, 2017 and 2024 Global Haematococcus pluvialis Microalgae Astaxanthin Value Market Share (%) by End-use Application - Nutraceuticals, Aqua & Animal Feed, Cosmetics and Food & Beverages

Chart 24: Global Haematococcus pluvialis Microalgae Astaxanthin Market Analysis (2014-2024) by Geographic Region – United States, Europe, Japan, Asia-Pacific and Rest of World in Metric Tons

Chart 25: Glance at 2014, 2017 and 2024 Global Haematococcus pluvialis Microalgae Astaxanthin Volume Market Share (%) by Geographic Region - United States, Europe, Japan, Asia-Pacific and Rest of World

Chart 26: Global Haematococcus pluvialis Microalgae Astaxanthin Market Analysis (2014-2024) by Geographic Region - United States, Europe, Japan, Asia-Pacific and Rest of World in USD Million

Chart 27: Glance at 2014, 2017 and 2024 Global Haematococcus pluvialis Microalgae Astaxanthin Value Market Share (%) by Geographic Region - United States, Europe, Japan, Asia-Pacific and Rest of World

Chart 28: Global Haematococcus pluvialis Microalgae Astaxanthin Market in Nutraceuticals (2014-2024) by Geographic Region - United States, Europe, Japan, Asia-Pacific and Rest of World in Metric Tons

Chart 29: Glance at 2014, 2017 and 2024 Global Haematococcus pluvialis Microalgae Astaxanthin Volume Market Share (%) in Nutraceuticals by Geographic Region - United



States, Europe, Japan, Asia-Pacific and Rest of World

Chart 30: Global Haematococcus pluvialis Microalgae Astaxanthin Market in Nutraceuticals (2014-2024) by Geographic Region - United States, Europe, Japan, Asia-Pacific and Rest of World in USD Million

Chart 31: Glance at 2014, 2017 and 2024 Global Haematococcus pluvialis Microalgae Astaxanthin Value Market Share (%) in Nutraceuticals by Geographic Region - United States, Europe, Japan, Asia-Pacific and Rest of World

Chart 32: Global Haematococcus pluvialis Microalgae Astaxanthin Market in Aqua & Animal Feed (2014-2024) by Geographic Region - United States, Europe, Japan, Asia-Pacific, South America and Rest of World in Metric Tons

Chart 33: Glance at 2014, 2017 and 2024 Global Haematococcus pluvialis Microalgae Astaxanthin Volume Market Share (%) in Aqua & Animal Feed by Geographic Region - United States, Europe, Japan, Asia-Pacific, South America and Rest of World Chart 34: Global Haematococcus pluvialis Microalgae Astaxanthin Market in Aqua & Animal Feed (2014-2024) by Geographic Region - United States, Europe, Japan, Asia-Pacific, South America and Rest of World in USD Million

Chart 35: Glance at 2014, 2017 and 2024 Global Haematococcus pluvialis Microalgae Astaxanthin Value Market Share (%) in Aqua & Animal Feed by Geographic Region - United States, Europe, Japan, Asia-Pacific, South America and Rest of World Chart 36: Global Haematococcus pluvialis Microalgae Astaxanthin Market in Cosmetics (2014-2024) by Geographic Region - United States, Europe, Japan and Asia-Pacific in Metric Tons

Chart 37: Glance at 2014, 2017 and 2024 Global Haematococcus pluvialis Microalgae Astaxanthin Volume Market Share (%) in Cosmetics by Geographic Region - United States, Europe, Japan and Asia-Pacific

Chart 38: Global Haematococcus pluvialis Microalgae Astaxanthin Market in Cosmetics (2014-2024) by Geographic Region - United States, Europe, Japan and Asia-Pacific in USD Million

Chart 39: Glance at 2014, 2017 and 2024 Global Haematococcus pluvialis Microalgae Astaxanthin Value Market Share (%) in Cosmetics by Geographic Region - United States, Europe, Japan and Asia-Pacific

Chart 40: Global Haematococcus pluvialis Microalgae Astaxanthin Market in Food & Beverages (2014-2024) by Geographic Region - United States, Japan, Asia-Pacific and Rest of World in Metric Tons

Chart 41: Glance at 2014, 2017 and 2024 Global Haematococcus pluvialis Microalgae Astaxanthin Volume Market Share (%) in Food & Beverages by Geographic Region - United States, Japan, Asia-Pacific and Rest of World

Chart 42: Global Haematococcus pluvialis Microalgae Astaxanthin Market in Food & Beverages (2014-2024) by Geographic Region - United States, Japan, Asia-Pacific and



Rest of World in USD Million

Chart 43: Glance at 2014, 2017 and 2024 Global Haematococcus pluvialis Microalgae Astaxanthin Value Market Share (%) in Food & Beverages by Geographic Region - United States, Japan, Asia-Pacific and Rest of World

Chart 44: Global Paracoccus carotinifaciens Bacteria Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 45: Global Paracoccus carotinifaciens Bacteria Astaxanthin Market Analysis (2014-2024) by Geographic Region - Europe, Japan, North America and Chile in Metric Tons

Chart 46: Glance at 2014, 2017 and 2024 Global Paracoccus carotinifaciens Bacteria Astaxanthin Volume Market Share (%) by Geographic Region - Europe, Japan, North America and Chile

Chart 47: Global Paracoccus carotinifaciens Bacteria Astaxanthin Market Analysis (2014-2024) by Geographic Region - Europe, Japan, North America and Chile in USD Million

Chart 48: Glance at 2014, 2017 and 2024 Global Paracoccus carotinifaciens Bacteria Astaxanthin Value Market Share (%) by Geographic Region - Europe, Japan, North America and Chile

PART B: REGIONAL MARKET PERSPECTIVE

Chart 49: Global Astaxanthin Market Analysis (2014-2024) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in Metric Tons Chart 50: Glance at 2014, 2017 and 2024 Global Astaxanthin Market Volume Market Share (%) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World

Chart 51: Global Astaxanthin Market Analysis (2014-2024) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in USD Million Chart 52: Glance at 2014, 2017 and 2024 Global Astaxanthin Market Value Market Share (%) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World

REGIONAL MARKET OVERVIEW

NORTH AMERICA

Chart 53: North American Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 54: North American Astaxanthin Market Analysis (2014-2024) by Raw Material



Source – Synthetic, Microalgae and Bacteria in Metric Tons

Chart 55: Glance at 2014, 2017 and 2024 North American Astaxanthin Volume Market

Share (%) by Raw Material Source - Synthetic, Microalgae and Bacteria

Chart 56: North American Astaxanthin Market Analysis (2014-2024) by Raw Material

Source – Synthetic, Microalgae and Bacteria in USD Million

Chart 57: Glance at 2014, 2017 and 2024 North American Astaxanthin Value Market

Share (%) by Raw Material Source - Synthetic, Microalgae and Bacteria

Chart 58: North American Synthetic Astaxanthin Market Analysis (2014-2024) by

Volume in Metric Tons and Value in USD Million

Chart 59: North American Synthetic Astaxanthin Market Analysis (2014-2024) by

Country – Canada, United States and Mexico in Metric Tons

Chart 60: Glance at 2014, 2017 and 2024 North American Synthetic Astaxanthin

Volume Market Share (%) by Country – Canada, United States and Mexico

Chart 61: North American Synthetic Astaxanthin Market Analysis (2014-2024) by

Country – Canada, United States and Mexico in USD Million

Chart 62: Glance at 2014, 2017 and 2024 North American Synthetic Astaxanthin Value

Market Share (%) by Country – Canada, United States and Mexico

Chart 63: United States Haematococcus pluvialis Microalgae Astaxanthin Market

Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 64: United States Haematococcus pluvialis Microalgae Astaxanthin Market

Analysis (2014-2024) by End-use Application – Nutraceuticals, Aqua & Animal Feed,

Cosmetics and Food & Beverages in Metric Tons

Chart 65: Glance at 2014, 2017 and 2024 United States Haematococcus pluvialis

Microalgae Astaxanthin Volume Market Share (%) by End-use Application -

Nutraceuticals, Aqua & Animal Feed, Cosmetics and Food & Beverages

Chart 66: United States Haematococcus pluvialis Microalgae Astaxanthin Market

Analysis (2014-2024) by End-use Application – Nutraceuticals, Aqua & Animal Feed,

Cosmetics and Food & Beverages in USD Million

Chart 67: Glance at 2014, 2017 and 2024 United States Haematococcus pluvialis

Microalgae Astaxanthin Value Market Share (%) by End-use Application –

Nutraceuticals, Aqua & Animal Feed, Cosmetics and Food & Beverages

Chart 68: North American Paracoccus carotinifaciens Bacteria Astaxanthin Market

Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

EUROPE

Chart 69: European Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 70: European Astaxanthin Market Analysis (2014-2024) by Raw Material Source -



Synthetic, Microalgae and Bacteria in Metric Tons

Chart 71: Glance at 2014, 2017 and 2024 European Astaxanthin Volume Market Share (%) by Raw Material Source – Synthetic, Microalgae and Bacteria

Chart 72: European Astaxanthin Market Analysis (2014-2024) by Raw Material Source – Synthetic, Microalgae and Bacteria in USD Million

Chart 73: Glance at 2014, 2017 and 2024 European Astaxanthin Value Market Share (%) by Raw Material Source – Synthetic, Microalgae and Bacteria

Chart 74: European Synthetic Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 75: European Synthetic Astaxanthin Market Analysis (2014-2024) by Country – Norway, United Kingdom and Rest of Europe in Metric Tons

Chart 76: Glance at 2014, 2017 and 2024 European Synthetic Astaxanthin Volume Market Share (%) by Country – Norway, United Kingdom and Rest of Europe

Chart 77: European Synthetic Astaxanthin Market Analysis (2014-2024) by Country – Norway, United Kingdom and Rest of Europe in USD Million

Chart 78: Glance at 2014, 2017 and 2024 European Synthetic Astaxanthin Value Market Share (%) by Country – Norway, United Kingdom and Rest of Europe

Chart 79: European Haematococcus pluvialis Microalgae Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 80: European Haematococcus pluvialis Microalgae Astaxanthin Market Analysis (2014-2024) by End-use Application – Nutraceuticals, Aqua & Animal Feed and Cosmetics in Metric Tons

Chart 81: Glance at 2014, 2017 and 2024 European Haematococcus pluvialis Microalgae Astaxanthin Volume Market Share (%) by End-use Application – Nutraceuticals, Agua & Animal Feed and Cosmetics

Chart 82: European Haematococcus pluvialis Microalgae Astaxanthin Market Analysis (2014-2024) by End-use Application – Nutraceuticals, Aqua & Animal Feed and Cosmetics in USD Million

Chart 83: Glance at 2014, 2017 and 2024 European Haematococcus pluvialis Microalgae Astaxanthin Value Market Share (%) by End-use Application – Nutraceuticals, Aqua & Animal Feed and Cosmetics

Chart 84: European Paracoccus carotinifaciens Bacteria Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

JAPAN

Chart 85: Japanese Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 86: Japanese Astaxanthin Market Analysis (2014-2024) by Raw Material Source -



Synthetic, Microalgae and Bacteria in Metric Tons

Chart 87: Glance at 2014, 2017 and 2024 Japanese Astaxanthin Volume Market Share (%) by Raw Material Source – Synthetic, Microalgae and Bacteria

Chart 88: Japanese Astaxanthin Market Analysis (2014-2024) by Raw Material Source – Synthetic, Microalgae and Bacteria in USD Million

Chart 89: Glance at 2014, 2017 and 2024 Japanese Astaxanthin Value Market Share (%) by Raw Material Source – Synthetic, Microalgae and Bacteria

Chart 90: Japanese Synthetic Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 91: Japanese Haematococcus pluvialis Microalgae Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 92: Japanese Haematococcus pluvialis Microalgae Astaxanthin Market Analysis (2014-2024) by End-use Application – Nutraceuticals, Aqua & Animal Feed, Cosmetics and Food & Beverages in Metric Tons

Chart 93: Glance at 2014, 2017 and 2024 Japanese Haematococcus pluvialis Microalgae Astaxanthin Volume Market Share (%) by End-use Application –

Nutraceuticals, Aqua & Animal Feed, Cosmetics and Food & Beverages

Chart 94: Japanese Haematococcus pluvialis Microalgae Astaxanthin Market Analysis (2014-2024) by End-use Application – Nutraceuticals, Aqua & Animal Feed, Cosmetics and Food & Beverages in USD Million

Chart 95: Glance at 2014, 2017 and 2024 Japanese Haematococcus pluvialis Microalgae Astaxanthin Value Market Share (%) by End-use Application – Nutraceuticals, Aqua & Animal Feed, Cosmetics and Food & Beverages Chart 96: Japanese Paracoccus carotinifaciens Bacteria Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

ASIA-PACIFIC (EXCLUDING JAPAN)

Chart 97: Asia-Pacific Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 98: Asia-Pacific Astaxanthin Market Analysis (2014-2024) by Raw Material

Source - Synthetic and Microalgae in Metric Tons

Chart 99: Glance at 2014, 2017 and 2024 Asia-Pacific Astaxanthin Volume Market

Share (%) by Raw Material Source - Synthetic and Microalgae

Chart 100: Asia-Pacific Astaxanthin Market Analysis (2014-2024) by Raw Material

Source – Synthetic and Microalgae in USD Million

Chart 101: Glance at 2014, 2017 and 2024 Asia-Pacific Astaxanthin Value Market

Share (%) by Raw Material Source - Synthetic and Microalgae

Chart 102: Asia-Pacific Synthetic Astaxanthin Market Analysis (2014-2024) by Volume



in Metric Tons and Value in USD Million

Chart 103: Asia-Pacific Synthetic Astaxanthin Market Analysis (2014-2024) by Country – China, Australia & New Zealand and Rest of Asia-Pacific in Metric Tons Chart 104: Glance at 2014, 2017 and 2024 Asia-Pacific Synthetic Astaxanthin Volume Market Share (%) by Country – China, Australia & New Zealand and Rest of Asia-Pacific

Chart 105: Asia-Pacific Synthetic Astaxanthin Market Analysis (2014-2024) by Country – China, Australia & New Zealand and Rest of Asia-Pacific in USD Million
Chart 106: Glance at 2014, 2017 and 2024 Asia-Pacific Synthetic Astaxanthin Value
Market Share (%) by Country – China, Australia & New Zealand and Rest of APAC
Chart 107: Asia-Pacific Haematococcus pluvialis Microalgae Astaxanthin Market
Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million
Chart 108: Asia-Pacific Haematococcus pluvialis Microalgae Astaxanthin Market
Analysis (2014-2024) by End-use Application – Nutraceuticals, Aqua & Animal Feed,
Cosmetics and Food & Beverages in Metric Tons
Chart 109: Glance at 2014, 2017 and 2024 Asia-Pacific Haematococcus pluvialis
Microalgae Astaxanthin Volume Market Share (%) by End-use Application –
Nutraceuticals, Aqua & Animal Feed, Cosmetics and Food & Beverages
Chart 110: Asia-Pacific Haematococcus pluvialis Microalgae Astaxanthin Market
Analysis (2014-2024) by End-use Application – Nutraceuticals, Aqua & Animal Feed,

Chart 111: Glance at 2014, 2017 and 2024 Asia-Pacific (excluding Japan)

Haematococcus Microalgae Astaxanthin Value Market Share (%) by End-use

Application – Nutraceuticals, Aqua & Animal Feed, Cosmetics and Food & Beverages

SOUTH AMERICA

Chart 112: South American Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 113: South American Astaxanthin Market Analysis (2014-2024) by Raw Material Source – Synthetic, Microalgae and Bacteria in Metric Tons

Chart 114: Glance at 2014, 2017 and 2024 South American Astaxanthin Volume Market Share (%) by Raw Material Source – Synthetic, Microalgae and Bacteria

Chart 115: South American Astaxanthin Market Analysis (2014-2024) by Raw Material Source – Synthetic, Microalgae and Bacteria in USD Million

Chart 116: Glance at 2014, 2017 and 2024 South American Astaxanthin Value Market Share (%) by Raw Material Source – Synthetic, Microalgae and Bacteria

Chart 117: South American Synthetic Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Cosmetics and Food & Beverages in USD Million



Chart 118: South American Synthetic Astaxanthin Market Analysis (2014-2024) by Country – Chile, Peru and Rest of South America in Metric Tons
Chart 119: Glance at 2014, 2017 and 2024 South American Synthetic Astaxanthin
Volume Market Share (%) by Country – Chile, Peru and Rest of South America
Chart 120: South American Synthetic Astaxanthin Market Analysis (2014-2024) by
Country – Chile, Peru and Rest of South America in USD Million
Chart 121: Glance at 2014, 2017 and 2024 South American Synthetic Astaxanthin
Value Market Share (%) by Country – Chile, Peru and Rest of South America
Chart 122: South American Haematococcus pluvialis Microalgae Astaxanthin Market
Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million
Chart 123: Chilean Paracoccus carotinifaciens Bacteria Astaxanthin Market Analysis
(2014-2024) by Volume in Metric Tons and Value in USD Million

REST OF WORLD

Chart 124: Rest of World Astaxanthin Market Analysis (2014-2024) by Volume in Metric Tons and Value in USD Million

Chart 125: Rest of World Astaxanthin Market Analysis (2014-2024) by Raw Material Source – Synthetic and Microalgae in Metric Tons

Chart 126: Glance at 2014, 2017 and 2024 Rest of World Astaxanthin Volume Market Share (%) by Raw Material Source – Synthetic and Microalgae

Chart 127: Rest of World Astaxanthin Market Analysis (2014-2024) by Raw Material Source – Synthetic and Microalgae in USD Million

Chart 128: Glance at 2014, 2017 and 2024 Rest of World Astaxanthin Value Market Share (%) by Raw Material Source – Synthetic and Microalgae and Bacteria



Tables

TABLES:

- Table 1: Singlet Oxygen Quenching Rate Constants of Different Carotenoids
- Table 2: Ratios of Isomers Found in Astaxanthin from Various Sources
- Table 3: Free and Esterified Astaxanthin Ratios in Various Sources
- Table 4: Major Microorganism Sources of Astaxanthin
- Table 5: Astaxanthin Commercial Sources and their Applications
- Table 6: Applications of Haematococcus pluvialis derived Astaxanthin
- Table 7: Examples of Astaxanthin Products Available on the Market
- Table 8: Synthetic Astaxanthin Forms
- Table 9: Haematococcus Pluvialis Algae Astaxanthin Forms
- Table 10: Other Natural Astaxanthin Forms
- Table 11: Worldwide H. pluvialis Algae Culture Collection Centers
- Table 12: Typical Composition of Culture Medium
- Table 13: Standard BG-11 Medium Specifications
- Table 14: BG-11 Trace Metals Solution
- Table 15: Composition of Growth Medium for Haematococcus



Figures

FIGURES:

- Figure 1: Pro-oxidant Activity of Different Carotenoids
- Figure 2: Astaxanthin Structure
- Figure 3: Different Isomeric Forms of Astaxanthin
- Figure 4: Synthesis of astaxanthin by Wittig reaction
- Figure 5: Haematococcus pluvialis Green stage and Red stage
- Figure 6: Cyanotech Corp's Astaxanthin Production Facility
- Figure 7: Cyanotech Corp's Astaxanthin Production Process
- Figure 8: Cyanotech Corp's PhytoDome CCS Closed Outdoor Photo-bioreactors
- Figure 9: Cynatech Corp's Open Raceway Ponds
- Figure 10: Jingzhou Natural Astaxanthin Inc's Astaxanthin Production Plant in Hubei, China
- Figure 11: Jingzhou Natural Astaxanthin Inc's H. Pluvialis Growth Multiplied in Column Type Indoor PBRs
- Figure 12: Jingzhou Natural Astaxanthin Inc's H. Pluvialis Growth at Green Phase in Indoor Raceway Ponds
- Figure 13: Jingzhou Natural Astaxanthin Inc's Astaxanthin Accumulation at Red Phase in Outdoor Raceway Ponds
- Figure 14: Atacama Bio Natural's H. pluvialis Green Stage Growth Process
- Figure 15: Atacama Bio Natural's Open Raceway Ponds for Astaxanthin Accumulation
- Figure 16: Heliae's Algae Cultivation Plant in Gilbert, AZ, United States
- Figure 17: Heliae's Closed Tubular Photo-bioreactors
- Figure 18: Heliae's Volaris Commercial Algae Cultivation System
- Figure 19: Algatechnologies Ltd Astaxanthin Production Process
- Figure 20: Algatechnologies Ltd Plant Closed Loop Tubular Photo-bioreactors Installed Outdoors
- Figure 21: BGG H. pluvialis Culitvation Site in Yunnan, China
- Figure 22: BGG's H. Pluvialis Growth Process
- Figure 23: Yunnan Alphy's Photo-bioreactor Design
- Figure 24: Yunnan Alphy's H. pluvialis Cultivation Process
- Figure 25: AstaReal's Closed Stainless Steel Photo-bioreactors
- Figure 26: Algae Health's Photo-bioreactor Design
- Figure 27: Algae to Omega's Incubation Tanks for Starter Culture of H. pluvialis
- Figure 28: Algae to Omega's Closed Tubular PBR
- Figure 29: Algae to Omega's Algae Cultivation Tanks
- Figure 30: Supreme Health New Zealand's Plastic Bag Photo-bioreactors Growing H.



Pluvialis Algae

Figure 31: Supreme Health New Zealand's Closed Plastic Bag Photo-bioreactors

Containing Red Cysts of H. Pluvialis Algae

Figure 32: Subitec GmbH's Flat Panel Airlift Photo-bioreactor Design

Figure 33: Subitec's FPA Bioreactors in Operation



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