

# Global Phycocyanin Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Phycocyanin market size is expected to reach \$ 120 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

The phycocyanin market refers to the global economic activities connected to the production, extraction, purification, formulation, and sale of phycocyanin, a natural blue pigment–protein complex mainly derived from spirulina (*Arthrospira platensis*) and a few other cyanobacteria. In simple terms, phycocyanin is a naturally occurring bright blue colorant with antioxidant and anti-inflammatory characteristics, widely used in foods, beverages, nutraceuticals, dietary supplements, cosmetics, biotechnology, and even diagnostic research tools. The market includes spirulina farmers, algae cultivation technology suppliers, extraction equipment providers, pigment manufacturers, distributors, ingredient formulators, beverage companies, confectionery brands, cosmetic formulators, pharmaceutical ingredient suppliers, and downstream consumer-facing brands that integrate phycocyanin into their product formulations.

At the production level, the market covers various cultivation methods, including open-pond cultivation, closed photobioreactor systems, hybrid cultivation systems, and controlled high-density algae farms. After cultivation, manufacturers extract phycocyanin using water extraction, membrane filtration, enzymatic methods, or mild physical processes to preserve the protein's stability. The extracted phycocyanin is categorized into multiple purity grades—food grade, cosmetic grade, pharmaceutical grade, reagent grade, and high-purity laboratory grade. Different grades serve different applications, which creates multiple layers of value within the industry and allows the market to expand across sectors.

In commercial use, phycocyanin is best known as a natural blue colorant used in ice

cream, beverages, smoothies, candies, plant-based yogurts, syrups, blue beer, sports nutrition powders, gum, and various novelty foods. It has become a favored alternative to synthetic blue colorants such as Brilliant Blue FCF because consumers increasingly demand “clean label,” organic, and plant-based ingredients. The market also includes natural food coloring manufacturers that use phycocyanin to create blended colors such as green, lavender, or turquoise by mixing phycocyanin with yellow or red pigments.

In 2024, global Phycocyanin production reached approximately 283.4 MT, with an average global market price of around US\$ 272 per kg. The global single-line production capacity ranges from 15 to 30 MT per year. The industry's gross profit margin is approximately 20%-25%.

The phycocyanin market has shown strong momentum in recent years, and several noticeable trends are shaping its development. One major trend is the rapid expansion of the natural food coloring sector. As global food and beverage brands move away from synthetic dyes, phycocyanin is becoming one of the most important natural blue pigments available. Unlike other natural pigments that fade easily, high-quality phycocyanin can achieve stable color performance in many refrigerated and frozen applications. This shift toward natural ingredients has significantly enlarged the market and continues to attract new manufacturers.

Another important trend is the rise of plant-based and “clean label” diets. Consumers in North America, Europe, Japan, South Korea, and increasingly China and Southeast Asia are paying attention to ingredient transparency. Packaging claims such as “naturally colored,” “spirulina extract,” “derived from algae,” and “no artificial dyes” help drive attention toward phycocyanin-based products. The natural cosmetics sector also aligns with this movement, expanding the pigment’s use in skincare and personal care.

The nutraceutical and dietary supplement industry also contributes to market growth. Spirulina-derived ingredients have long been used in wellness products, and phycocyanin—being one of spirulina’s most active components—now appears in energy drinks, sports powders, antioxidant supplements, and immune-boosting capsules. The trend toward multifunctional plant proteins and algae-based nutritional products gives phycocyanin additional visibility.

This report studies the global Phycocyanin production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phycocyanin and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Phycocyanin that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Phycocyanin total production and demand, 2021-2032, (MT)

Global Phycocyanin total production value, 2021-2032, (USD Million)

Global Phycocyanin production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MT), (based on production site)

Global Phycocyanin consumption by region & country, CAGR, 2021-2032 & (MT)

U.S. VS China: Phycocyanin domestic production, consumption, key domestic manufacturers and share

Global Phycocyanin production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MT)

Global Phycocyanin production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MT)

Global Phycocyanin production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MT)

This report profiles key players in the global Phycocyanin market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DIC, Japan Algae, Parry Nutraceuticals, Ozone Naturals, CNJ Nature, Nan Pao International Biotech, King Dnarmsa Spirulina, Zhejiang Binmei Biotechnology, Wuli Lvqi, Norland, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Phycocyanin market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) and average price (USD/Kg) by

manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Phycocyanin Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Phycocyanin Market, Segmentation by Type:

Food Grade

Cosmetic Grade

Pharmaceutical Grade

#### Global Phycocyanin Market, Segmentation by Source:

Spirulina-Based Phycocyanin

Other Cyanobacteria-Derived Phycocyanin

### Global Phycocyanin Market, Segmentation by Physical Form:

- Powdered Phycocyanin
- Liquid Phycocyanin
- Microencapsulated Phycocyanin
- Others

### Global Phycocyanin Market, Segmentation by Application:

- Natural Food Colorant
- Pharmaceutical Industry
- Others

### Companies Profiled:

- DIC
- Japan Algae
- Parry Nutraceuticals
- Ozone Naturals
- CNJ Nature
- Nan Pao International Biotech
- King Dnarmsa Spirulina
- Zhejiang Binmei Biotechnology
- Wuli Lvqi

Norland

**Key Questions Answered:**

1. How big is the global Phycocyanin market?
2. What is the demand of the global Phycocyanin market?
3. What is the year over year growth of the global Phycocyanin market?
4. What is the production and production value of the global Phycocyanin market?
5. Who are the key producers in the global Phycocyanin market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 SCADA Introduction
- 1.2 World SCADA Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World SCADA Total Market by Region (by Headquarter Location)
  - 1.3.1 World SCADA Market Size by Region (2021-2032), (by Headquarter Location)
  - 1.3.2 United States Based Company SCADA Revenue (2021-2032)
  - 1.3.3 China Based Company SCADA Revenue (2021-2032)
  - 1.3.4 Europe Based Company SCADA Revenue (2021-2032)
  - 1.3.5 Japan Based Company SCADA Revenue (2021-2032)
  - 1.3.6 South Korea Based Company SCADA Revenue (2021-2032)
  - 1.3.7 ASEAN Based Company SCADA Revenue (2021-2032)
  - 1.3.8 India Based Company SCADA Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 SCADA Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World SCADA Consumption Value (2021-2032)
- 2.2 World SCADA Consumption Value by Region
  - 2.2.1 World SCADA Consumption Value by Region (2021-2026)
  - 2.2.2 World SCADA Consumption Value Forecast by Region (2027-2032)
- 2.3 United States SCADA Consumption Value (2021-2032)
- 2.4 China SCADA Consumption Value (2021-2032)
- 2.5 Europe SCADA Consumption Value (2021-2032)
- 2.6 Japan SCADA Consumption Value (2021-2032)
- 2.7 South Korea SCADA Consumption Value (2021-2032)
- 2.8 ASEAN SCADA Consumption Value (2021-2032)
- 2.9 India SCADA Consumption Value (2021-2032)

### 3 WORLD SCADA COMPANIES COMPETITIVE ANALYSIS

- 3.1 World SCADA Revenue by Player (2021-2026)
- 3.2 Industry Rank and Concentration Rate (CR)
  - 3.2.1 Global SCADA Industry Rank of Major Players

- 3.2.2 Global Concentration Ratios (CR4) for SCADA in 2025
- 3.2.3 Global Concentration Ratios (CR8) for SCADA in 2025
- 3.3 SCADA Company Evaluation Quadrant
- 3.4 SCADA Market: Overall Company Footprint Analysis
  - 3.4.1 SCADA Market: Region Footprint
  - 3.4.2 SCADA Market: Company Product Type Footprint
  - 3.4.3 SCADA Market: Company Product Application Footprint
- 3.5 Competitive Environment
  - 3.5.1 Historical Structure of the Industry
  - 3.5.2 Barriers of Market Entry
  - 3.5.3 Factors of Competition
- 3.6 Mergers & Acquisitions Activity

## **4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)**

- 4.1 United States VS China: SCADA Revenue Comparison (by Headquarter Location)
  - 4.1.1 United States VS China: SCADA Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
  - 4.1.2 United States VS China: SCADA Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: SCADA Consumption Value Comparison
  - 4.2.1 United States VS China: SCADA Consumption Value Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: SCADA Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States Based SCADA Companies and Market Share, 2021-2026
  - 4.3.1 United States Based SCADA Companies, Headquarters (States, Country)
  - 4.3.2 United States Based Companies SCADA Revenue, (2021-2026)
- 4.4 China Based Companies SCADA Revenue and Market Share, 2021-2026
  - 4.4.1 China Based SCADA Companies, Company Headquarters (Province, Country)
  - 4.4.2 China Based Companies SCADA Revenue, (2021-2026)
- 4.5 Rest of World Based SCADA Companies and Market Share, 2021-2026
  - 4.5.1 Rest of World Based SCADA Companies, Headquarters (Province, Country)
  - 4.5.2 Rest of World Based Companies SCADA Revenue (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

## 5.1 World SCADA Market Size Overview by Type: 2021 VS 2025 VS 2032

## 5.2 Segment Introduction by Type

### 5.2.1 Hardware

### 5.2.2 Software

### 5.2.3 Services

## 5.3 Market Segment by Type

### 5.3.1 World SCADA Market Size by Type (2021-2026)

### 5.3.2 World SCADA Market Size by Type (2027-2032)

### 5.3.3 World SCADA Market Size Market Share by Type (2027-2032)

## 6 MARKET ANALYSIS BY APPLICATION

## 6.1 World SCADA Market Size Overview by Application: 2021 VS 2025 VS 2032

## 6.2 Segment Introduction by Application

### 6.2.1 Power & Energy

### 6.2.2 Oil & Gas Industry

### 6.2.3 Water & Waste Control

### 6.2.4 Telecommunications

### 6.2.5 Transportation

### 6.2.6 Manufacturing Industry

### 6.2.7 Others

## 6.3 Market Segment by Application

### 6.3.1 World SCADA Market Size by Application (2021-2026)

### 6.3.2 World SCADA Market Size by Application (2027-2032)

### 6.3.3 World SCADA Market Size Market Share by Application (2021-2032)

## 7 COMPANY PROFILES

## 7.1 Schneider Electric SE (France)

### 7.1.1 Schneider Electric SE (France) Details

### 7.1.2 Schneider Electric SE (France) Major Business

### 7.1.3 Schneider Electric SE (France) SCADA Product and Services

### 7.1.4 Schneider Electric SE (France) SCADA Revenue, Gross Margin and Market Share (2021-2026)

### 7.1.5 Schneider Electric SE (France) Recent Developments/Updates

### 7.1.6 Schneider Electric SE (France) Competitive Strengths & Weaknesses

## 7.2 ABB (Switzerland)

### 7.2.1 ABB (Switzerland) Details

### 7.2.2 ABB (Switzerland) Major Business

- 7.2.3 ABB (Switzerland) SCADA Product and Services
- 7.2.4 ABB (Switzerland) SCADA Revenue, Gross Margin and Market Share (2021-2026)
- 7.2.5 ABB (Switzerland) Recent Developments/Updates
- 7.2.6 ABB (Switzerland) Competitive Strengths & Weaknesses
- 7.3 Siemens AG (Germany)
  - 7.3.1 Siemens AG (Germany) Details
  - 7.3.2 Siemens AG (Germany) Major Business
  - 7.3.3 Siemens AG (Germany) SCADA Product and Services
  - 7.3.4 Siemens AG (Germany) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.3.5 Siemens AG (Germany) Recent Developments/Updates
  - 7.3.6 Siemens AG (Germany) Competitive Strengths & Weaknesses
- 7.4 Emerson (US)
  - 7.4.1 Emerson (US) Details
  - 7.4.2 Emerson (US) Major Business
  - 7.4.3 Emerson (US) SCADA Product and Services
  - 7.4.4 Emerson (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.4.5 Emerson (US) Recent Developments/Updates
  - 7.4.6 Emerson (US) Competitive Strengths & Weaknesses
- 7.5 Rockwell Automation Inc. (US)
  - 7.5.1 Rockwell Automation Inc. (US) Details
  - 7.5.2 Rockwell Automation Inc. (US) Major Business
  - 7.5.3 Rockwell Automation Inc. (US) SCADA Product and Services
  - 7.5.4 Rockwell Automation Inc. (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.5.5 Rockwell Automation Inc. (US) Recent Developments/Updates
  - 7.5.6 Rockwell Automation Inc. (US) Competitive Strengths & Weaknesses
- 7.6 Honeywell International Inc. (US)
  - 7.6.1 Honeywell International Inc. (US) Details
  - 7.6.2 Honeywell International Inc. (US) Major Business
  - 7.6.3 Honeywell International Inc. (US) SCADA Product and Services
  - 7.6.4 Honeywell International Inc. (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.6.5 Honeywell International Inc. (US) Recent Developments/Updates
  - 7.6.6 Honeywell International Inc. (US) Competitive Strengths & Weaknesses
- 7.7 Mitsubishi Electric (Japan)
  - 7.7.1 Mitsubishi Electric (Japan) Details
  - 7.7.2 Mitsubishi Electric (Japan) Major Business

- 7.7.3 Mitsubishi Electric (Japan) SCADA Product and Services
- 7.7.4 Mitsubishi Electric (Japan) SCADA Revenue, Gross Margin and Market Share (2021-2026)
- 7.7.5 Mitsubishi Electric (Japan) Recent Developments/Updates
- 7.7.6 Mitsubishi Electric (Japan) Competitive Strengths & Weaknesses
- 7.8 Omron Corporation (Japan)
  - 7.8.1 Omron Corporation (Japan) Details
  - 7.8.2 Omron Corporation (Japan) Major Business
  - 7.8.3 Omron Corporation (Japan) SCADA Product and Services
  - 7.8.4 Omron Corporation (Japan) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.8.5 Omron Corporation (Japan) Recent Developments/Updates
  - 7.8.6 Omron Corporation (Japan) Competitive Strengths & Weaknesses
- 7.9 General Electric Co. (US)
  - 7.9.1 General Electric Co. (US) Details
  - 7.9.2 General Electric Co. (US) Major Business
  - 7.9.3 General Electric Co. (US) SCADA Product and Services
  - 7.9.4 General Electric Co. (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.9.5 General Electric Co. (US) Recent Developments/Updates
  - 7.9.6 General Electric Co. (US) Competitive Strengths & Weaknesses
- 7.10 Yokogawa Electric Corporation (Japan)
  - 7.10.1 Yokogawa Electric Corporation (Japan) Details
  - 7.10.2 Yokogawa Electric Corporation (Japan) Major Business
  - 7.10.3 Yokogawa Electric Corporation (Japan) SCADA Product and Services
  - 7.10.4 Yokogawa Electric Corporation (Japan) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.10.5 Yokogawa Electric Corporation (Japan) Recent Developments/Updates
  - 7.10.6 Yokogawa Electric Corporation (Japan) Competitive Strengths & Weaknesses
- 7.11 Larsen & Toubro (India)
  - 7.11.1 Larsen & Toubro (India) Details
  - 7.11.2 Larsen & Toubro (India) Major Business
  - 7.11.3 Larsen & Toubro (India) SCADA Product and Services
  - 7.11.4 Larsen & Toubro (India) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.11.5 Larsen & Toubro (India) Recent Developments/Updates
  - 7.11.6 Larsen & Toubro (India) Competitive Strengths & Weaknesses
- 7.12 M.B. Control & Systems Pvt. Ltd (India)
  - 7.12.1 M.B. Control & Systems Pvt. Ltd (India) Details

- 7.12.2 M.B. Control & Systems Pvt. Ltd (India) Major Business
- 7.12.3 M.B. Control & Systems Pvt. Ltd (India) SCADA Product and Services
- 7.12.4 M.B. Control & Systems Pvt. Ltd (India) SCADA Revenue, Gross Margin and Market Share (2021-2026)
- 7.12.5 M.B. Control & Systems Pvt. Ltd (India) Recent Developments/Updates
- 7.12.6 M.B. Control & Systems Pvt. Ltd (India) Competitive Strengths & Weaknesses

## **8 INDUSTRY CHAIN ANALYSIS**

- 8.1 SCADA Industry Chain
- 8.2 SCADA Upstream Analysis
- 8.3 SCADA Midstream Analysis
- 8.4 SCADA Downstream Analysis

## **9 RESEARCH FINDINGS AND CONCLUSION**

## **10 APPENDIX**

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Phycocyanin Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Phycocyanin Production Value by Region (2021-2026) & (USD Million)

Table 3. World Phycocyanin Production Value by Region (2027-2032) & (USD Million)

Table 4. World Phycocyanin Production Value Market Share by Region (2021-2026)

Table 5. World Phycocyanin Production Value Market Share by Region (2027-2032)

Table 6. World Phycocyanin Production by Region (2021-2026) & (MT)

Table 7. World Phycocyanin Production by Region (2027-2032) & (MT)

Table 8. World Phycocyanin Production Market Share by Region (2021-2026)

Table 9. World Phycocyanin Production Market Share by Region (2027-2032)

Table 10. World Phycocyanin Average Price by Region (2021-2026) & (USD/Kg)

Table 11. World Phycocyanin Average Price by Region (2027-2032) & (USD/Kg)

Table 12. Phycocyanin Major Market Trends

Table 13. World Phycocyanin Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (MT)

Table 14. World Phycocyanin Consumption by Region (2021-2026) & (MT)

Table 15. World Phycocyanin Consumption Forecast by Region (2027-2032) & (MT)

Table 16. World Phycocyanin Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Phycocyanin Producers in 2025

Table 18. World Phycocyanin Production by Manufacturer (2021-2026) & (MT)

Table 19. Production Market Share of Key Phycocyanin Producers in 2025

Table 20. World Phycocyanin Average Price by Manufacturer (2021-2026) & (USD/Kg)

Table 21. Global Phycocyanin Company Evaluation Quadrant

Table 22. World Phycocyanin Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Phycocyanin Production Site of Key Manufacturer

Table 24. Phycocyanin Market: Company Product Type Footprint

Table 25. Phycocyanin Market: Company Product Application Footprint

Table 26. Phycocyanin Competitive Factors

Table 27. Phycocyanin New Entrant and Capacity Expansion Plans

Table 28. Phycocyanin Mergers & Acquisitions Activity

Table 29. United States VS China Phycocyanin Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Phycocyanin Production Comparison, (2021 & 2025

& 2032) & (MT)

Table 31. United States VS China Phycocyanin Consumption Comparison, (2021 & 2025 & 2032) & (MT)

Table 32. United States Based Phycocyanin Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Phycocyanin Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Phycocyanin Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Phycocyanin Production (2021-2026) & (MT)

Table 36. United States Based Manufacturers Phycocyanin Production Market Share (2021-2026)

Table 37. China Based Phycocyanin Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Phycocyanin Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Phycocyanin Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Phycocyanin Production, (2021-2026) & (MT)

Table 41. China Based Manufacturers Phycocyanin Production Market Share (2021-2026)

Table 42. Rest of World Based Phycocyanin Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Phycocyanin Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Phycocyanin Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Phycocyanin Production, (2021-2026) & (MT)

Table 46. Rest of World Based Manufacturers Phycocyanin Production Market Share (2021-2026)

Table 47. World Phycocyanin Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Phycocyanin Production by Type (2021-2026) & (MT)

Table 49. World Phycocyanin Production by Type (2027-2032) & (MT)

Table 50. World Phycocyanin Production Value by Type (2021-2026) & (USD Million)

Table 51. World Phycocyanin Production Value by Type (2027-2032) & (USD Million)

Table 52. World Phycocyanin Average Price by Type (2021-2026) & (USD/Kg)

- Table 53. World Phycocyanin Average Price by Type (2027-2032) & (USD/Kg)
- Table 54. World Phycocyanin Production Value by Source, (USD Million), 2021 & 2025 & 2032
- Table 55. World Phycocyanin Production by Source (2021-2026) & (MT)
- Table 56. World Phycocyanin Production by Source (2027-2032) & (MT)
- Table 57. World Phycocyanin Production Value by Source (2021-2026) & (USD Million)
- Table 58. World Phycocyanin Production Value by Source (2027-2032) & (USD Million)
- Table 59. World Phycocyanin Average Price by Source (2021-2026) & (USD/Kg)
- Table 60. World Phycocyanin Average Price by Source (2027-2032) & (USD/Kg)
- Table 61. World Phycocyanin Production Value by Physical Form, (USD Million), 2021 & 2025 & 2032
- Table 62. World Phycocyanin Production by Physical Form (2021-2026) & (MT)
- Table 63. World Phycocyanin Production by Physical Form (2027-2032) & (MT)
- Table 64. World Phycocyanin Production Value by Physical Form (2021-2026) & (USD Million)
- Table 65. World Phycocyanin Production Value by Physical Form (2027-2032) & (USD Million)
- Table 66. World Phycocyanin Average Price by Physical Form (2021-2026) & (USD/Kg)
- Table 67. World Phycocyanin Average Price by Physical Form (2027-2032) & (USD/Kg)
- Table 68. World Phycocyanin Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World Phycocyanin Production by Application (2021-2026) & (MT)
- Table 70. World Phycocyanin Production by Application (2027-2032) & (MT)
- Table 71. World Phycocyanin Production Value by Application (2021-2026) & (USD Million)
- Table 72. World Phycocyanin Production Value by Application (2027-2032) & (USD Million)
- Table 73. World Phycocyanin Average Price by Application (2021-2026) & (USD/Kg)
- Table 74. World Phycocyanin Average Price by Application (2027-2032) & (USD/Kg)
- Table 75. DIC Basic Information, Manufacturing Base and Competitors
- Table 76. DIC Major Business
- Table 77. DIC Phycocyanin Product and Services
- Table 78. DIC Phycocyanin Production (MT), Price (USD/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. DIC Recent Developments/Updates
- Table 80. DIC Competitive Strengths & Weaknesses
- Table 81. Japan Algae Basic Information, Manufacturing Base and Competitors
- Table 82. Japan Algae Major Business
- Table 83. Japan Algae Phycocyanin Product and Services

Table 84. Japan Algae Phycocyanin Production (MT), Price (USD/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Japan Algae Recent Developments/Updates

Table 86. Japan Algae Competitive Strengths & Weaknesses

Table 87. Parry Nutraceuticals Basic Information, Manufacturing Base and Competitors

Table 88. Parry Nutraceuticals Major Business

Table 89. Parry Nutraceuticals Phycocyanin Product and Services

Table 90. Parry Nutraceuticals Phycocyanin Production (MT), Price (USD/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Parry Nutraceuticals Recent Developments/Updates

Table 92. Parry Nutraceuticals Competitive Strengths & Weaknesses

Table 93. Ozone Naturals Basic Information, Manufacturing Base and Competitors

Table 94. Ozone Naturals Major Business

Table 95. Ozone Naturals Phycocyanin Product and Services

Table 96. Ozone Naturals Phycocyanin Production (MT), Price (USD/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Ozone Naturals Recent Developments/Updates

Table 98. Ozone Naturals Competitive Strengths & Weaknesses

Table 99. CNJ Nature Basic Information, Manufacturing Base and Competitors

Table 100. CNJ Nature Major Business

Table 101. CNJ Nature Phycocyanin Product and Services

Table 102. CNJ Nature Phycocyanin Production (MT), Price (USD/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. CNJ Nature Recent Developments/Updates

Table 104. CNJ Nature Competitive Strengths & Weaknesses

Table 105. Nan Pao International Biotech Basic Information, Manufacturing Base and Competitors

Table 106. Nan Pao International Biotech Major Business

Table 107. Nan Pao International Biotech Phycocyanin Product and Services

Table 108. Nan Pao International Biotech Phycocyanin Production (MT), Price (USD/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Nan Pao International Biotech Recent Developments/Updates

Table 110. Nan Pao International Biotech Competitive Strengths & Weaknesses

Table 111. King Dnarmsa Spirulina Basic Information, Manufacturing Base and Competitors

Table 112. King Dnarmsa Spirulina Major Business

Table 113. King Dnarmsa Spirulina Phycocyanin Product and Services

Table 114. King Dnarmsa Spirulina Phycocyanin Production (MT), Price (USD/Kg),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. King Dnarmsa Spirulina Recent Developments/Updates

Table 116. King Dnarmsa Spirulina Competitive Strengths & Weaknesses

Table 117. Zhejiang Binmei Biotechnology Basic Information, Manufacturing Base and Competitors

Table 118. Zhejiang Binmei Biotechnology Major Business

Table 119. Zhejiang Binmei Biotechnology Phycocyanin Product and Services

Table 120. Zhejiang Binmei Biotechnology Phycocyanin Production (MT), Price (USD/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Zhejiang Binmei Biotechnology Recent Developments/Updates

Table 122. Zhejiang Binmei Biotechnology Competitive Strengths & Weaknesses

Table 123. Wuli Lvqi Basic Information, Manufacturing Base and Competitors

Table 124. Wuli Lvqi Major Business

Table 125. Wuli Lvqi Phycocyanin Product and Services

Table 126. Wuli Lvqi Phycocyanin Production (MT), Price (USD/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Wuli Lvqi Recent Developments/Updates

Table 128. Wuli Lvqi Competitive Strengths & Weaknesses

Table 129. Norland Basic Information, Manufacturing Base and Competitors

Table 130. Norland Major Business

Table 131. Norland Phycocyanin Product and Services

Table 132. Norland Phycocyanin Production (MT), Price (USD/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Norland Recent Developments/Updates

Table 134. Norland Competitive Strengths & Weaknesses

Table 135. Global Key Players of Phycocyanin Upstream (Raw Materials)

Table 136. Global Phycocyanin Typical Customers

Table 137. Phycocyanin Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Phycocyanin Picture

Figure 2. World Phycocyanin Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Phycocyanin Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Phycocyanin Production (2021-2032) & (MT)

Figure 5. World Phycocyanin Average Price (2021-2032) & (USD/Kg)

Figure 6. World Phycocyanin Production Value Market Share by Region (2021-2032)

Figure 7. World Phycocyanin Production Market Share by Region (2021-2032)

Figure 8. North America Phycocyanin Production (2021-2032) & (MT)

Figure 9. Europe Phycocyanin Production (2021-2032) & (MT)

Figure 10. Japan Phycocyanin Production (2021-2032) & (MT)

Figure 11. China Phycocyanin Production (2021-2032) & (MT)

Figure 12. India Phycocyanin Production (2021-2032) & (MT)

Figure 13. Phycocyanin Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Phycocyanin Consumption (2021-2032) & (MT)

Figure 16. World Phycocyanin Consumption Market Share by Region (2021-2032)

Figure 17. United States Phycocyanin Consumption (2021-2032) & (MT)

Figure 18. China Phycocyanin Consumption (2021-2032) & (MT)

Figure 19. Europe Phycocyanin Consumption (2021-2032) & (MT)

Figure 20. Japan Phycocyanin Consumption (2021-2032) & (MT)

Figure 21. South Korea Phycocyanin Consumption (2021-2032) & (MT)

Figure 22. ASEAN Phycocyanin Consumption (2021-2032) & (MT)

Figure 23. India Phycocyanin Consumption (2021-2032) & (MT)

Figure 24. Producer Shipments of Phycocyanin by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Phycocyanin Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Phycocyanin Markets in 2025

Figure 27. United States VS China: Phycocyanin Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Phycocyanin Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Phycocyanin Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Phycocyanin Production Market Share 2025

Figure 31. China Based Manufacturers Phycocyanin Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Phycocyanin Production Market Share 2025

Figure 33. World Phycocyanin Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Phycocyanin Production Value Market Share by Type in 2025

Figure 35. Food Grade

Figure 36. Cosmetic Grade

Figure 37. Pharmaceutical Grade

Figure 38. World Phycocyanin Production Market Share by Type (2021-2032)

Figure 39. World Phycocyanin Production Value Market Share by Type (2021-2032)

Figure 40. World Phycocyanin Average Price by Type (2021-2032) & (USD/Kg)

Figure 41. World Phycocyanin Production Value by Source, (USD Million), 2021 & 2025 & 2032

Figure 42. World Phycocyanin Production Value Market Share by Source in 2025

Figure 43. Spirulina-Based Phycocyanin

Figure 44. Other Cyanobacteria-Derived Phycocyanin

Figure 45. World Phycocyanin Production Market Share by Source (2021-2032)

Figure 46. World Phycocyanin Production Value Market Share by Source (2021-2032)

Figure 47. World Phycocyanin Average Price by Source (2021-2032) & (USD/Kg)

Figure 48. World Phycocyanin Production Value by Physical Form, (USD Million), 2021 & 2025 & 2032

Figure 49. World Phycocyanin Production Value Market Share by Physical Form in 2025

Figure 50. Powdered Phycocyanin

Figure 51. Liquid Phycocyanin

Figure 52. Microencapsulated Phycocyanin

Figure 53. Others

Figure 54. World Phycocyanin Production Market Share by Physical Form (2021-2032)

Figure 55. World Phycocyanin Production Value Market Share by Physical Form (2021-2032)

Figure 56. World Phycocyanin Average Price by Physical Form (2021-2032) & (USD/Kg)

Figure 57. World Phycocyanin Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Phycocyanin Production Value Market Share by Application in 2025

Figure 59. Natural Food Colorant

Figure 60. Pharmaceutical Industry

Figure 61. Others

Figure 62. World Phycocyanin Production Market Share by Application (2021-2032)

Figure 63. World Phycocyanin Production Value Market Share by Application (2021-2032)

Figure 64. World Phycocyanin Average Price by Application (2021-2032) & (USD/Kg)

Figure 65. Phycocyanin Industry Chain

Figure 66. Phycocyanin Procurement Model

Figure 67. Phycocyanin Sales Model

Figure 68. Phycocyanin Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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