

Phycocyanin Market Expected to Reach \$409.8 Million by 2030

Allied Market Research forecasts a robust growth at 9.6% CAGR for phycocyanin, driven by rising demand for natural food colors and health benefits.

WILMINGTON, NEW CASTLE, DELAWARE, UNITED STATES, June 27, 2024 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, [Global Phycocyanin Market](#) by Form, Grade and Application: Global Opportunity Analysis and Industry Forecast, 2021–2030, The global phycocyanin market size is expected to reach \$409.8 million by 2030 at a CAGR of 9.6% from 2021 to 2030.



Global PHYCOCYANIN Market
Opportunities and Forecast, 2021-2030

Global Phycocyanin Market is expected to reach **\$409.8 Million** by 2030.
Growing at a **CAGR of 9.6%** (2021-2030)

Phycocyanin Market

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Phycocyanin's natural origin and health-promoting properties are fueling its adoption in diverse industries.”

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Phycocyanin belongs to the light harvesting phycobiliprotein family. It is found in Cryptophyceae, cyanobacteria, Rhodophyceae and according to the species it is called as C-PC and R-PC. It has been gaining major

popularity in medical and biotechnology filed as C-phycocyanin isolated from *S. platensis* having many therapeutic efficacies such as anticancer properties, free radical scavenging activity, and antioxidant and anti-inflammatory properties.

North America and Europe are critically banning use of synthetic colors in food & beverages, owing to its health hazards hyperactivity in the children and skin allergies. For instance, European Food Safety Authority, the regulatory agency of EU countries has banned the

utilization of synthetic color for food safety for the products that are consumed in EU countries, which subsequently promotes the growth for natural color market; thus, indirectly boosting the demand for phycocyanin during the forecast period.

The phycocyanin market is segmented on the basis of form, grade, application, and region. On the basis of form, the market is categorized into powder and liquid. On the basis of grade, the market is divided into food grade, pharma grade and reagent & analytical grade. By application, it is segregated into food & beverages, pharmaceuticals, cosmetics, nutraceuticals and others. Region wise, it is analyzed across North America (the U.S., Canada, and Mexico), Europe (Germany, France, the UK, Italy, Spain, the Netherlands, and rest of Europe), Asia-Pacific (China, Japan, Australia, South Korea, India, and rest of Asia-Pacific), and LAMEA (Brazil, Argentina, South Africa, Saudi Arabia, Turkey, and rest of LAMEA).

Phycocyanin is a blue pigment-protein complex from the light-harvesting phycobiliprotein family, found in cyanobacteria (such as Spirulina) and certain red algae. It is used for its vibrant blue color and potential health benefits.

Key Market Segments:

- Natural Colorant: Phycocyanin is widely used as a natural blue colorant in foods and beverages, replacing synthetic dyes like Blue No. 1.
- Antioxidant Properties: It exhibits strong antioxidant activity, helping to neutralize free radicals and reduce oxidative stress.
- Anti-Inflammatory Effects: Research suggests that phycocyanin may help reduce inflammation, making it beneficial for conditions like arthritis.
- Immune System Support: It may enhance the immune response by promoting the production of antibodies and other immune cells.
- Potential Anti-Cancer Activity: Some studies indicate that phycocyanin might have anti-cancer properties, inhibiting the growth of cancer cells.

Applications:

- - Food and Beverage Industry: Used in smoothies, ice creams, candies, and drinks for its color and health benefits.
- - Cosmetics: Incorporated into skincare products for its antioxidant and anti-inflammatory properties.
- - Nutraceuticals: Available in supplement form, often marketed for its health benefits.

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Ongoing research is exploring the various health benefits and potential therapeutic applications of phycocyanin, as well as ways to optimize its extraction and stability for commercial use.

According to the phycocyanin market trends, on the basis of form, the liquid segment was valued at \$11.8 million in 2020, and is projected to reach \$39.0 million by 2030, registering a CAGR of 12.1% from 2021 to 2030. Liquid phycocyanin has been gaining significant traction among end users as liquid phycocyanin is more concentrated than powder so food & beverages manufacturing companies need liquid phycocyanin in lesser quantity.

On the basis of grade, the reagent & analytical grade segment is estimated to reach \$14.8 million by 2030, at a CAGR of 10.1%. The grades of the phycocyanin are based on the purity of the phycocyanin and on the basis of purity, it is used in various applications such as pharmaceutical, biomedical, and food & beverages. C-PC purity is defined as the ratio between the absorbances at 620 nm and 280 nm; when this ratio is ≥ 0.7 , C-PC is considered to be of food grade purity and when ≥ 4.0 it is considered to be of analytical grade purity. Analytical grade phycocyanin is used for pharmaceutical and nutraceuticals applications as it is a nontoxic and non-carcinogenic natural coloring agent.

As per application, the cosmetic segment is estimated to reach \$32.7 million by 2030, growing at a CAGR of 10.9%. Phycocyanin has been gaining considerable popularity cosmetic and personal care industry, owing to its free radical scavenging and anti-inflammatory properties. Growth in demand for premium cosmetic products and greater acceptance for the organic and natural ingredient-based cosmetic products are likely to surge the growth of the phycocyanin through cosmetic segment. For instance, Kunye's Nourish Face Mask has gained major popularity among the health-conscious customers. Nourish Face Mask is an organic face mask that combines formula such as phycocyanin, wheatgrass, neem, sea kelp, and Canadian bentonite Clay.

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Region wise, Europe has been gaining considerable traction in the phycocyanin market, and is expected to grow at a significant CAGR during the forecast period. EFSA, the regulatory agency of EU countries for food safety, has banned the use of synthetic colors in the products consumed in EU countries, which is expected to boost the growth of the natural color market. Changes in consumer preferences toward nutritious and healthy products is the new trend for which companies are launching innovative products to supplement the demands of the modern society. Thus, growing demand for organic and natural food color and high inclination toward nutritious foods products are expected to accelerate the growth of the Europe phycocyanin market during the forecast period.

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- - The phycocyanin market was valued at \$155.3 million in 2020, and is estimated to reach \$409.8 million by 2030, growing at a CAGR of 9.6% during the forecast period.

- - By form, the powder segment is estimated to witness the fastest growth, registering a CAGR of 9.4% during the forecast period.

- - In 2020, depending on application, the nutraceuticals segment was valued at \$18.9 million, accounting for 12.2% of the global functional pet food market share.

- - In 2020, the U.S. was the most prominent market in North America, and is projected to reach \$107.8 million by 2030, growing at a CAGR of 7.9% during the forecast period.

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