

Microalgae Global Market In 2029

*The Business Research Company's
Microalgae Global Market Report 2025 –
Market Size, Trends, And Global Forecast
2025-2034*

LONDON, GREATER LONDON, UNITED KINGDOM, December 5, 2025 /EINPresswire.com/ -- [Microalgae Global Market](#) to Surpass \$2 billion in 2029. In comparison, the ingredients market, which is considered as its parent market, is expected to be approximately \$330 billion by 2029, with microalgae global market to represent around 0.6% of the parent market. Within the broader food and beverages industry, which is expected to be \$8,783 by 2029, the microalgae global market is estimated to account for nearly 0.02% of the total market value.

Which Will Be the Biggest Region in the Microalgae Market in 2029?

North America will be the largest region in the microalgae global market in 2029, valued at \$524 million. The market is expected to grow from \$386 in 2024 at a compound annual growth rate (CAGR) of 6%. The strong growth can be attributed to growing demand for dietary supplements and expansion of the cosmetic and personal care industry.

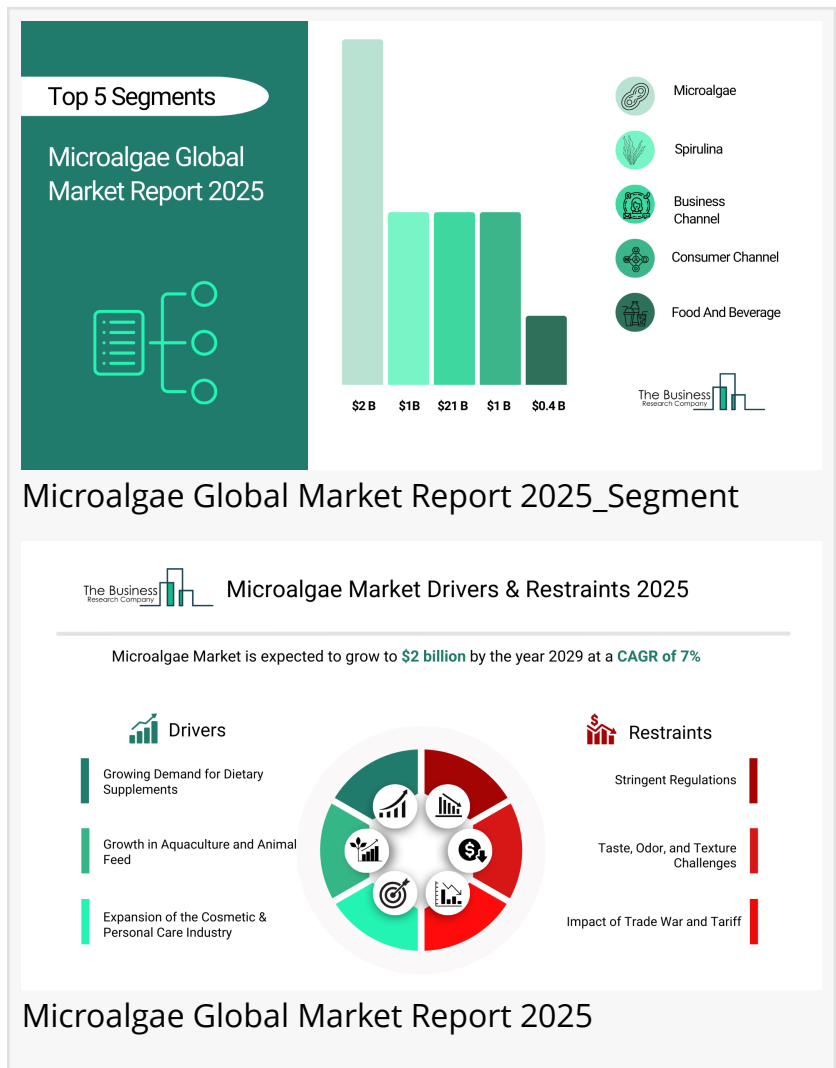
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The expected CAGR for the microalgae global Market leading up to 2029 is 7%.”

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Which Will Be The Largest Country In The Global Microalgae Market In 2029?

USA will be the largest country in the microalgae global market in 2029, valued at \$444 million. The market is expected to grow from \$330 million 2024 at a compound annual growth rate (CAGR) of 6%. The Strong growth can



be attributed to the growing demand for dietary supplements and growth in aquaculture and animal feed.

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What will be Largest Segment in the Microalgae Market in 2029?

The [microalgae global market is segmented](#) by type into spirulina, chlorella, dunaliella salina, haematococcus pluvialis and other microalgae. The Spirulina market will be the largest segment of the microalgae global market segmented by type, accounting for 36% or \$721 million of the total in 2029. The microalgae market will be supported by its high protein and antioxidant content driving usage in dietary supplements, increasing demand for natural colorants like phycocyanin in food and beverages, rising adoption in nutraceuticals for immunity and wellness, growing vegan and vegetarian population seeking plant-based proteins, expanding applications in fortified foods and beverages, supportive government approvals for Spirulina cultivation and the rise of clean-label and natural ingredient trends.

The microalgae global market is segmented by distribution channel into business channel and consumer channel. The business channel market will be the largest segment of the Microalgae Global market segmented by distribution channel, accounting for 50% or \$1008 million of the total in 2029. The microalgae market will be supported by bulk demand from food and beverage companies, long-term supply agreements with dietary supplement manufacturers, adoption by cosmetics and pharmaceutical companies for large-scale formulations, growing demand from animal feed producers, rising interest from biofuel and energy companies, government and institutional procurement for research and pilot projects and international trade expansion of microalgae raw materials.

The microalgae global market is segmented by application into food and beverage, dietary supplements, pharmaceuticals, cosmetics and personal care, bio-fuel, inks, animal feed and other applications. The food and beverage market will be the largest segment of the microalgae global market segmented by application, accounting for 20% or \$404 million of the total in 2029. The microalgae market will be supported by growing demand for natural colorants and flavoring agents, rising inclusion in fortified snacks, smoothies and beverages, increasing consumer preference for plant-based protein sources, growing applications in bakery and confectionery for nutritional enhancement, demand for clean-label ingredients in packaged foods, popularity of Spirulina and Chlorella in health drinks and expansion of algae-based functional foods across global markets.



What is the expected CAGR for the microalgae global market leading up to 2029?

The expected CAGR for the microalgae global Market leading up to 2029 is 7%.

What Will Be The Growth Driving Factors In The Global Microalgae Market In The Forecast Period?

The rapid growth of the global microalgae global market leading up to 2029 will be driven by the following key factors that are expected to reshape food- & ingredient supply chains, industrial materials, carbon management, and wastewater/biorefinery processes worldwide.

Growing Demand For Dietary Supplements - The growing demand for dietary supplements will become a key driver of growth in the microalgae global market by 2029. spirulina and chlorella—are becoming increasingly popular due to their high nutrient content and potential health benefits. As consumers shift toward natural and sustainable alternatives to synthetic supplements, demand for microalgae-derived ingredients is expected to surge, thereby contributing significantly to the growth of the microalgae market throughout the forecast period. As a result, the growing demand for dietary supplements is anticipated to contributing to a 1.5% annual growth in the market.

Growth In Aquaculture And Animal Feed - The growth in aquaculture and animal feed will emerge as a major factor driving the expansion of the market by 2029. fishmeal and fish oil are increasingly constrained by supply issues and price fluctuations, creating a growing need for alternative sources. Microalgae provide a promising solution, offering a rich supply of omega-3 fatty acids, proteins and other essential nutrients. As global demand for aquatic foods increases particularly in Asia and emerging middle-income countries feed producers are likely to seek out reliable, scalable and sustainable inputs to support industry growth. This shift toward more efficient and environmentally responsible animal nutrition is expected to drive greater adoption of microalgae-based ingredients in feed formulations and aquaculture operations. Consequently, the growth in aquaculture and animal feed is projected to contributing to a 1.2% annual growth in the market.

Expansion Of The Cosmetic And Personal Care Industry - The expansion of the cosmetic and personal care industry will serve as a key growth catalyst for the market by 2029, The cosmetics sector is increasingly focused on incorporating bioactive, natural and sustainable ingredients into skincare, haircare and anti-aging formulations many of which can be derived from microalgae. These microorganisms are rich in antioxidants, pigments and essential fatty acids that enhance product performance and support skin health. In addition, growing consumer demand for clean-label and eco-friendly products is pushing manufacturers to seek reliable and sustainable sources of high-value bioactive compounds. As cosmetic and personal care brands continue to innovate and diversify their offerings, the demand for microalgae-based ingredients is projected to grow, further driving the development of the microalgae market Therefore, this expansion of the cosmetic & personal care industry is projected to supporting to a 1.0% annual growth in the market.

Growth In The Pharmaceutical Industry - The growth in the pharmaceutical industry will become a significant driver contributing to the growth of the market by 2029. The pharmaceutical sector relies heavily on high-quality, bioactive compounds for the development of drugs, vaccines and active pharmaceutical ingredients many of which can be derived from microalgae. Known for their rich and diverse biochemical profile, microalgae offer a sustainable and versatile source of unique compounds with therapeutic and functional properties. Additionally, the growing emphasis on generic drug production and the rise in global pharmaceutical exports are increasing the demand for dependable, scalable sources of these bioactive ingredients. As pharmaceutical companies continue to advance their research, development and manufacturing capabilities, the demand for microalgae-based compounds is projected to rise, further propelling the growth of the microalgae market. Consequently, the growth in the pharmaceutical industry is projected to contributing to a 0.8% annual growth in the market.

Access the detailed Microalgae Market report here:

<https://www.thebusinessresearchcompany.com/report/microalgae-global-market-report>

What Are The Key Growth Opportunities In The Microalgae Market in 2029?

The most significant growth opportunities are anticipated in the spirulina microalgae market, microalgae commercialization and distribution market, and microalgae-infused food and beverage market. Collectively, these segments are projected to contribute over \$2 billion in market value by 2029, driven by advancements in bioprocessing technologies, rising demand for sustainable protein alternatives, and increasing integration of algae-derived ingredients in nutraceuticals, cosmetics, and functional foods. This surge reflects the global shift toward circular bioeconomy models, emphasizing renewable biomass utilization and low-carbon manufacturing. As industries seek eco-efficient solutions for nutrition, energy, and material innovation, the microalgae sector is poised to become a pivotal driver of sustainable biotechnological transformation across the food, health, and environmental domains.

The microalgae commercialization and distribution market is projected to grow by \$271 million, the spirulina microalgae market by \$191 million, and the microalgae-infused food and beverage market by \$116 million over the next five years from 2024 to 2029.

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