

Microalgal-based Feed Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Microalgal-based Feed Market Overview

The microalgal-based feed market is poised for growth as the aquaculture industry increasingly turns to sustainable, high-protein alternatives for animal feed. Microalgae such as Tetraselmis, Nannochloropsis, Isochrysis, and Pavlova are used as feed ingredients, especially in hatcheries for finfish, shellfish, and shrimp. As concerns about overfishing and the depletion of natural fishmeal sources grow, the demand for alternative and eco-friendly feed ingredients like microalgae is increasing. The growth of aquaculture, coupled with the benefits of microalgal-based feeds, such as improved fish health and environmental sustainability, is expected to drive the market's expansion.

Market Size

The microalgal-based feed market is expected to grow at a compound annual growth rate (CAGR) ranging from 8% to 12% over the forecast period. The increasing awareness about sustainable aquaculture practices and the rising demand for high-quality feed ingredients are expected to contribute significantly to market growth.

Market Share & Trends Analysis

By Application

The microalgal-based feed market is segmented by its application across various types of aquaculture hatcheries. The growth rate for each application is estimated as follows:

Fin Fish Hatchery: The fin fish hatchery segment is expected to experience the highest growth, with a CAGR of 9% to 12%, as microalgal-based feeds are increasingly adopted for improving the growth and health of farmed fish species.

Shellfish Hatchery: The shellfish hatchery segment is projected to grow at a CAGR of 8% to 10%. Microalgae are known to provide essential nutrients to shellfish larvae, enhancing survival rates and quality.

Shrimp Hatchery: The shrimp hatchery segment is expected to experience steady growth, with a CAGR of 7% to 9%, driven by the growing demand for sustainable feed options in the shrimp farming industry.

Others: Other aquaculture applications, including ornamental fish farming and marine conservation efforts, are anticipated to grow at a moderate rate, with a CAGR of 6% to 8%.

By Product Type

Microalgal-based feed is derived from several species of microalgae, with the following products expected to dominate the market:

Tetraselmis: Tetraselmis-based feed products are anticipated to grow at a CAGR of 8% to 10%, due to their high lipid content and ability to support the growth of marine fish and shellfish larvae.

Nannochloropsis: Nannochloropsis, another popular microalgal strain, is projected to see a steady rise in demand, with an estimated CAGR of 9% to 11%. This microalga is rich in omega-3 fatty acids, making it an ideal feed ingredient for finfish hatcheries.

Isochrysis: Isochrysis, known for its high carotenoid content, is expected to experience significant growth, with a CAGR of 8% to 10%. It is widely used in shellfish hatcheries and is gaining popularity in the shrimp farming sector.

Pavlova: Pavlova-based feeds are projected to grow at a CAGR of 7% to 9%, as their nutritional profile supports the development of various aquatic species, particularly in finfish and shellfish hatcheries.

Others: Other microalgal species, including those used for research or specific local applications, are expected to see modest growth, with a CAGR of 6% to 8%.

By Key Market Players

Leading players in the microalgal-based feed market include:

Reed Mariculture: A major producer of high-quality microalgal products for aquaculture, including species like Isochrysis and Nannochloropsis.

Innovative Aquaculture: Known for its innovations in microalgae-based aquaculture feeds, focusing on sustainable and eco-friendly feed solutions.

Brine Shrimp Direct: A key supplier of microalgal products to the aquaculture

industry, offering a range of feed ingredients for shrimp and other aquatic species.

Phycom: Specializes in producing microalgal-based feed for finfish and shellfish hatcheries, with a focus on algae such as *Nannochloropsis* and *Tetraselmis*.

AlgaEnergy: AlgaEnergy is a leader in the commercialization of microalgal products for sustainable feed applications, with significant market share in the aquaculture sector.

Aliga Microalgae: Known for its high-quality microalgae products, particularly for use in shrimp and fish farming.

Neotalgae: Specializes in producing microalgal-based feed for the aquaculture industry, focusing on species like *Isochrysis* and *Pavlova*.

BlueBioTech: A prominent player providing microalgal products for sustainable aquaculture, with a focus on species like *Tetraselmis* and *Isochrysis*.

Allmicroalgae: Offers a wide range of microalgae products used in animal feed, focusing on sustainable and environmentally friendly alternatives to traditional feed ingredients.

PhytoBloom: Known for producing microalgal-based products for both aquaculture and agricultural applications.

Aquatic Live Food: Specializes in providing live and microalgal-based food for aquaculture, with a strong emphasis on the nutritional quality of its products.

Reef Culture: Focuses on cultivating microalgae for aquaculture feeds, providing species like *Nannochloropsis* and *Isochrysis* to hatcheries.

Xiamen Jianghai: A key player in producing microalgae-based feeds for the aquaculture industry, particularly for shellfish and finfish hatcheries.

Beihai Qunlin: Specializes in providing microalgal products for shrimp farming and other aquaculture applications.

Jiangmen Lvchuan: Focuses on the production of high-quality microalgae-based products used in aquaculture feeds.

By Region

The microalgal-based feed market is experiencing growth across several key regions:

North America: North America is expected to hold a significant share of the market, growing at a CAGR of 8% to 11%, driven by the increasing demand for sustainable feed options in aquaculture.

Europe: Europe is projected to grow at a CAGR of 9% to 12%, as the region continues to push for more eco-friendly practices in aquaculture and the food production chain.

Asia-Pacific: The Asia-Pacific region is expected to see the highest growth rate, with a CAGR of 10% to 14%, led by strong demand for microalgal feed products in shrimp and finfish hatcheries in countries like China, India, and Thailand.

Latin America: Latin America is expected to experience moderate growth, with a CAGR

of 6% to 9%, as the aquaculture industry in the region increasingly adopts microalgal feeds for sustainable farming practices.

Middle East & Africa: The Middle East & Africa region is expected to grow at a CAGR of 7% to 9%, as the aquaculture industry seeks more sustainable feed options for its growing markets.

Market Forecasts (2025-2030)

Growth in Key Segments

Fin Fish Hatchery: The fin fish hatchery segment is expected to maintain its strong growth trajectory, with a projected CAGR of 9% to 12%, as demand for high-quality and sustainable feed ingredients rises.

Shrimp Hatchery: The shrimp hatchery segment is projected to grow steadily, at a CAGR of 7% to 9%, driven by the increasing adoption of microalgae as a protein-rich feed alternative in shrimp farming.

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