

Algae Protein Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

<https://marketpublishers.com/r/A0989DA8384EEN.html>

Date: August 2025

Pages: 192

Price: US\$ 4,850.00 (Single User License)

ID: A0989DA8384EEN

Abstracts

The Global Algae Protein Market was valued at USD 933 million in 2024 and is projected to grow from USD 987.6 million in 2025 to USD 1.54 billion by 2034, expanding at a CAGR of 5.1%, according to the latest report published by Global Market Insights, Inc. The global movement toward plant-based diets, sustainably sourced products, and the functional health benefits of algae-based products are the key forces defining the direction of the market.

Seaweed and microalgal protein—especially from spirulina and chlorella—are increasingly commonplace in food and beverage, dietary supplements, and nutraceuticals. It has one of the highest bioavailable proteins, is nutritionally complete with essential amino acids, and benefits immunity, energy, and muscle.

Market Size & Growth:

2024 Market Size: USD 933 million

2025 Market Size: USD 987.6 million

2034 Forecast Market Size: USD 1.54 billion

CAGR (2025–2034): 5.1%

Regional Insights:

Largest Market – North America:

Fastest Growing Region – Asia Pacific:

Emerging Countries: Brazil, Thailand, Vietnam, and Indonesia

Key Drivers:

The plant-based and vegan way of life is becoming increasingly common: Individuals are actively seeking sustainable, cruelty-free, and whole protein foods.

The real-world benefits of algae protein: Algae ingredients support energy, metabolism, and immune system function and have anti-inflammatory effects.

Cultured and very minimal space use: Algae needs fewer natural resources to produce, which aligns with global sustainability initiatives.

Increased uses in food & beverage and dietary supplement applications: Algae protein has substantially increased uses in the production of capsules, powders, and fortified foods, especially in applications for sports and nutritional health.

Key Players:

The algae protein market is dominated by the top 7 players: Corbion N.V, Cyanotech Corporation, BASF SE, Nutrex Hawaii Inc., Veramaris, ENERGYbits Inc. and Roquette Freres, which together comprise approximately 56% of the market share in 2024, with the following key challenges:

Key Challenges:

Low consumer awareness in certain geography: Raising consumer awareness of the health and sustainability benefits of algae is a key challenge to overcome.

Flavor and texture: Certain algae proteins have earthy or oceanic flavors that are sometimes unsuitable for certain food applications.

Geographical regulatory complexities: Algae is classified as a novel food in

some geographies, and this is holding it up in the market.

Browse key industry insights spread across 192 pages with 211 market data tables and figures from the report, “Algae Protein Market Size - By Source, Dosage Form, Application, Growth Forecast, 2025 - 2034” in detail, along with the table of contents:

1. By Source – Seaweed Dominates the Market

Seaweed proteins lead the algae protein market in 2024 because of their natural prevalence, sustainable production and multiple applications in food and nutraceutical sectors. Both red and brown seaweeds are particularly rich in protein and bioactive components that assist in metabolic health.

2. By Dosage Form – Capsules Maintain Strong Share

Capsules became the favored format in the algae protein supplement market. Capsules provide convenience, improved shelf life, and precise dosing—drivers of consumer trust and adherence to wellness regimens.

3. By Application – Dietary Supplements Lead

Dietary supplements held the largest application share in 2024. The continual introduction of algae protein into the nutrition space as a natural product and concentrated nutrients has opened even more applications in multivitamins, immunity boosters and sports nutrition.

4. By Region - North America Topped the Market

The North America region remains the leading regional market for algae protein because of the growing health-conscious consumer segment, the rising demand for clean-label and sustainable products, and the growing presence of algae-based supplement brands in retail and e-commerce.

Key players in the algae protein industry are AlgalR NutraPharms Pvt Ltd, BASF SE, Corbion, Cyanotech Corporation, ENERGYbits Inc, Far East Bio-Tec Co. Ltd, Fuqing King Dnarmsa Spirulina Co., Ltd, Heliae Development LLC, JUNE Spirulina, Nutrex Hawaii Inc, Roquette Freres, and Veramaris.

Incumbent players are investing in R&D, geographic expansion, and vertical integration to increase algae culture, extraction technologies, and product quality. Roquette Frères and Veramaris are emphasizing seaweed cultivation based on sustainability and protein quality extraction for supplement-grade usage. ENERGYbits Inc. and Cyanotech Corporation are developing capsule product offerings for athletes and health enthusiasts. Collaborations with food tech ventures and the inclusion of algae in ready-to-consume formats are further driving market presence.

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