



UNLOCKING THE POWER OF MICROALGAE

To produce algae-based solutions for businesses worldwide utilising captured carbon dioxide.



Algae Products International Ltd

-  www.algae-products.com
-  info@algae-products.com
-  +44-1792-000-001



Unleashing Nature's Potential: API, Pioneering Microalgae Innovations

We are Algae Products International (API), a cutting-edge technology company revolutionising industries with the remarkable potential of microalgae. Our commitment to sustainability echoes in every aspect of our operations, from reducing carbon footprints to crafting eco-friendly, highly nutritious algae products.

API's diverse team of experts, with extensive experience in microalgae production, is dedicated to pioneering the market with the latest technological advancements and sustainable practices. Our goal is to forge a brighter, more sustainable future through ground-breaking innovations for the food industry, aquafeed, cosmetics, nutraceuticals, and pharmaceuticals.

Offering a wide range of customisable products, including algae-based proteins Spirulina, Astaxanthin, Beta-carotene, Chlorophyll, and a diverse array of other high-quality products, our team collaborates closely with businesses to tailor solutions to their specific needs with controlled purity levels.

Join the algae revolution with API and unlock the incredible potential of microalgae for your business.



Our Quality Assurance Commitment

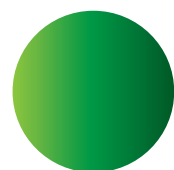
Setting the Standards

At API, we take pride in our unwavering dedication to quality and safety. Our ISO 9001 & 14001 certifications underscore our commitment to industry-leading standards.

Rigorous quality assurance procedures govern every step of our process, ensuring the reliability and safety of our diverse range of microalgae-based products. From stringent quality control measures to adherence to industry standards, we guarantee excellence in every facet of our operations.

Our unique process not only champions sustainability but also addresses regulatory hurdles and safety concerns associated with microalgae.

Trust API for cutting-edge solutions with a seal of quality assurance and a commitment to a sustainable and brighter future.



Elevate your product line with our natural, regenerative, sustainable and nutrition packed algae products such as spirulina, beta-carotene, astaxanthin and many more...

Benefits

New Age Superfood

Omega-3

Carotenoid Rich

Protein & Fibre Rich

Powerful Antioxidant

58x More Iron Than
Spinach

18 Amino Acids

Vitamins & Minerals Rich

Utilises Captured CO²



Applications

Nutrition Packed
Cosmetics Bases

Food Supplement

Food Colourant

Natural Dyes

Aquafeed Ingredient

Bio Fertiliser

New-age
Pharmaceuticals

Eco-friendly
Nutraceutical

WHAT WE OFFER

Premium Algae Products

Elevate your products with our premium range of meticulously crafted algae extracts, including Spirulina, Astaxanthin, Beta-carotene, Chlorophyll, and a diverse array of other high-quality offerings. Our superior algae products, cultivated using state-of-the-art technology, infuse vitality, antioxidants, and vibrant pigmentation, transforming cosmetics, nutraceuticals, and various industries.



Custom Solutions

Unleash innovation with tailor-made algae solutions designed exclusively for your business. Our collaborative approach harnesses the power of algae to create bespoke formulations, unique colours, and functional ingredients that align perfectly with your brand vision. Experience the advantage of personalised algae-based innovations crafted to elevate your product line and captivate your market.



Algae Cultivation Expertise

Step into the future of sustainable cultivation with our unparalleled expertise in algae farming. Leveraging captured carbon dioxide and cutting-edge PBR technology, our team of top researchers brings over 25 years of collective experience. We offer comprehensive support and guidance, ensuring optimised algae cultivation methods for enhanced yield, quality, and environmental sustainability.



Cosmetics

Unlocking the potential of Microalgae to revolutionise the Cosmetics industry

Elevate your beauty products with **sustainable and innovative** microalgae ingredients, delivering natural skincare solutions with **eco-conscious benefits**.

We are API, an **industry leader** in providing microalgae-based ingredients to the cosmetics industry. Our products are **sustainably sourced** and meticulously developed to meet the needs of our clients.



Microalgae Benefits

Environmental Impact

Microalgae are a sustainable and renewable resource that can be grown using a fraction of the land and water required for traditional crops. Synthetic ingredients are often derived from petroleum and can have a negative impact on the environment.

Natural Superiority

Microalgae-based ingredients are packed with nutrients and antioxidants that are beneficial for the health and appearance of the skin and body. Synthetic ingredients can be effective, but they often lack the natural benefits of microalgae.

Safety

Microalgae-based ingredients offer a natural and safe alternative to synthetic chemicals that can be harsh on the skin and damaging to the environment. Many synthetic ingredients have been linked to skin irritation, allergies, and even cancer.



Products

Spirulina

Spirulina is a bright blue-green algae that can provide anti-aging, moisturising, and antioxidant benefits in cosmetics formulations

Chlorophyll

Microalgae chlorophyll offers antioxidant properties, natural colouring, and potential UV protection, making it a valuable ingredient in cosmetics for skin rejuvenation, anti-aging effects, and enhancing product appeal.

Astaxanthin

Astaxanthin improves skin condition, reduces moisture loss, and protects skin from oxidative stress and UVB-induced inflammation.

Beta-carotene

Microalgae-derived beta-carotene provides natural and sustainable pigmentation for cosmetics, enhancing product appeal, offering antioxidant properties, and promoting healthy-looking skin, while reducing environmental impact.



Applications in Cosmetics

- Cleansers & Exfoliants
- Colour Cosmetics
- Skincare
- Haircare
- Suncare
- Body Care

Nutraceuticals

Elevate Your Nutraceutical Products with our Premium Microalgae Extracts

Contact us to learn how we can help expand your product offerings with superior microalgae extracts and our unmatched expertise.



Microalgae Benefits

Omega-3 Fatty Acids

Attract health-conscious consumers with API's microalgae-derived omega-3s, an eco-friendly alternative to fish-based supplements, ensuring a premium source of heart-healthy fatty acids for your nutraceutical products.

Prebiotic Potential

Collaborate with API to introduce microalgae-based prebiotics to your product range, tapping into the surging demand for gut health products and establishing your brand as a frontrunner in digestive wellness.

Blood Sugar Management

Solutions to Empower Diabetics: Empathise with consumers managing diabetes by incorporating API's microalgae compounds, which contribute to balanced blood glucose levels, adding value and support to your nutraceutical offerings.

Empowering Women's Health

Utilise microalgae-based products to offer nutraceutical solutions catering to women's health needs, witnessing an impressive 60% rise in demand for hormone-balancing formulations.



Immune Boosters

Strengthen your nutraceutical lineup with API's microalgae compounds, scientifically proven to enhance immune function, making your products the go-to choice for customers seeking proactive health support.

Elevating Sports Nutrition

Fuel the demand for sports and fitness-focused nutraceuticals by harnessing the protein potential of microalgae, resulting in a significant 85% increase in demand for performance-boosting formulations.

Supporting Neurological Protection

Leverage microalgae compounds' potential for neuroprotective benefits in nutraceutical applications, tapping into a growing market segment with an impressive 85% rise in consumer adoption for brain health formulations.

Fostering Liver Detoxification

Offer nutraceutical products enriched with certain microalgae species' hepatoprotective properties, driving a significant 75% increase in demand for liver health formulations.

Products

Microalgae Biomass

Our premium microalgae biomass forms the foundation of nutraceutical products, containing a diverse array of essential nutrients such as proteins, lipids, carbohydrates, and antioxidants, paving the way for innovative and effective formulations.

Astaxanthin

Derived from various microalgae species, our astaxanthin is a potent antioxidant with extensive applications in nutraceuticals, supporting skin health, cardiovascular function, and promoting overall well-being.

Beta-carotene

Extracted from various microalgae species, our beta-carotene serves as a pro-vitamin A source, contributing to eye health, immune support, and cellular protection in nutraceutical applications.

Chlorophyll

With chlorophyll sourced from Chlorella and Spirulina, our nutraceutical products capitalise on its detoxification properties, aiding in cleansing and supporting overall health.

Carbohydrates

Microalgae-based carbohydrates offer functional benefits in nutraceutical formulations, acting as a source of energy, fiber, and prebiotics, nurturing digestive wellness and gut health.

Phycocyanin

Harness the vibrant blue pigment of phycocyanin from various microalgae species, delivering potent antioxidant and anti-inflammatory properties, ideal for nutraceutical products targeting cellular health and immunity.

Phycocerythrin

The radiant red pigment, phycocerythrin, sourced from a range of microalgae species enhances nutraceutical applications with its photodynamic therapy potential, contributing to advanced cancer research and treatments.

Proteins

Enrich your nutraceutical lineup with microalgae-derived proteins, offering a complete amino acid profile for muscle repair, tissue growth, and overall vitality.

Zeaxanthin

Extracted from various microalgae strains, zeaxanthin's antioxidant properties are essential for eye health, reducing the risk of age-related macular degeneration in nutraceutical formulations.

Spirulina

Our nutraceutical offerings incorporate the nutritional powerhouse Spirulina, a complete source of essential vitamins, minerals, and proteins, supporting immune function and overall health.



Aquafeed

Microalgae-based feeds have been shown to increase weight gain in fish by up to 20%, surpassing traditional feed alternatives.

We specialise in producing **high-quality** biomass, lipids, and proteins for the aquafeed industry. Our microalgae-based solutions help **reduce the environmental impact** of aquafeed while also improving its nutritional value.

Revolutionising Aquafeed with Microalgae-based products



Microalgae Benefits

Explosive Growth: Microalgae Revolutionising Aquafeed

Rapid surge projected in microalgae-based aquafeed market, reaching £1.70 billion by 2025, as businesses embrace sustainable practices and harness the superior nutritional value of microalgae in aquafeed, driving a projected £2.7 billion global microalgae market by 2020.

Reducing Reliance on Traditional Feed Sources

Our microalgae-based solutions provide a sustainable alternative to traditional fishmeal and soy feeds, reducing the reliance on wild fish populations and soy production.

Immunostimulatory Effects

Microalgae contain bioactive compounds that can boost the immune system of fish, reducing the incidence of diseases and improving overall health and survival rates.

Sustainability at its Core

By choosing our microalgae-based products, you contribute to a greener future. Our sustainable sourcing practices, utilising minimal land and water resources, help preserve natural ecosystems while meeting the increasing global demand for aquaculture products.

Omega-3 Advantage

Microalgae-based products provide a highly digestible and naturally produced omega-3 fatty acids, such as DHA and EPA, which are vital for fish health.

Enhanced Reproductive Performance

Studies indicate that microalgae supplementation in aquafeed can positively impact reproductive performance, leading to improved egg quality, hatchability, and larval survival.

Pigmentation Enhancement

Certain microalgae species contain phycocyanin such as astaxanthin, which can enhance the colouration of fish, particularly in species like salmon and trout, adding value to the final product.

Maximising larvae quality is crucial for achieving success in fish farming. That is why we are dedicated to developing innovative solutions that empower larvae and fry to fully realise their potential at every stage of the production process. Our products consistently demonstrate their significant value in numerous fish farms across the globe.

Discover the power of Customisation

- Our algae-based products offer tailored compositions, catering to the nutritional needs of various fish species such as trout, salmon, mussel, carp, and more.
- With our best in class facility in Wales, our expert researchers will closely work with you to develop bespoke aqua feed solutions.
- Collaborate with us for customised solutions aligned with your specific goals in nutrition, sustainability, and budget.
- Backed by extensive research and a team of top-tier researchers, our microalgae-based solutions are at the forefront of scientific innovation. Rest assured, our products undergo rigorous quality control measures, adhering to industry standards and regulations

Products

Biomass

Our high-quality microalgae biomass offers a diverse composition, comprising proteins, lipids, carbohydrates, vitamins, minerals, and pigments. It serves as an excellent base for aquafeed products, providing essential nutrients for fish and shellfish, including proteins, fatty acids, vitamins, and immune-boosting compounds.

Proteins

Our microalgae proteins boast a sustainable and effective alternative to conventional fishmeal and soy sources in aquafeed production. With a well-balanced composition, our proteins offer essential amino acids and contribute to the optimal growth and health of aquatic species.

Lipids

We offer a diverse range of microalgae lipids with varying fatty acid profiles to cater to the specific nutritional requirements of different fish species. Our lipids are rich in essential fatty acids, providing optimal nutrition for aquafeed.

Chlorophyll

Our microalgae chlorophyll composition serves as a valuable addition to the aquafeed industry. With its natural green pigment, it provides antioxidant properties, enhances immune response, and promotes overall health and vitality in aquatic species.



Food

Revolutionise your Food products with our Microalgae-Based Ingredients

Lower the carbon footprint of your food manufacturing by 50% by integrating our microalgae-based solutions, satisfying the growing demand for **eco-friendly choices**.

We are a pioneering microalgae-based ingredient provider revolutionising the food industry. Our **sustainable** and **nutritious** extracts enhance food offerings with natural colourants, functional ingredients, and delightful taste, reducing environmental impact.



Microalgae Benefits

Functional Ingredients

Microalgae-based ingredients can provide functional properties to food, such as emulsification or binding, without the need for artificial additives.

Emulsifiers

Our microalgae extracts can be used as natural emulsifiers to stabilise emulsions and improve the texture of food products.

Binders

Microalgae-based ingredients can be used as natural binders in meat alternatives and vegan food products.

Thickeners

Our microalgae extracts can provide a natural thickening effect to food products, improving their viscosity and texture.

Innovative Food Products

Our microalgae extracts can be used to create innovative and nutritious food products, such as plant-based protein or omega-3 supplements.

Plant-Based Meat Alternatives

Microalgae-based ingredients can provide the functional properties required to create delicious and sustainable plant-based meat alternatives.

Omega-3 Supplements

Our microalgae extracts can be used to create plant-based omega-3 supplements, offering a sustainable and nutritious alternative to fish-derived omega-3s.

Microalgae Smoothies

Our microalgae extracts can be used as a nutritious and delicious ingredient in smoothies and juice blends.

Natural Food Colourants

Harnessing the growing consumer demand for natural and sustainable options, microalgae emerge as a transformative food colourant. Supported by a 85% preference for natural hues, its potential to enhance visual appeal and reduce environmental impact makes it a game-changer for the food industry.



Did you know?

You might consider microalgae a "novel food", but in fact, they have been eaten by our ancestors for a very long time! The most known types in our foods are currently: Spirulina (a blue green algae) & Chlorella (a green, sometimes yellow, algae). Tetraselmis chuii is becoming more popular & *Microchloropsis* is on the rise too!

They are rich in valuable nutrients (proteins, essential fatty acids, minerals, vitamin B12).

The protein content of microalgae reaches up to 70% of dry matter: higher than in soy flour or chicken!

The quality of the protein is high as it includes all essential amino acids.

Elevate menus sustainably, crafting innovative, health-conscious offerings that align with the 55% rise in demand for natural, eco-friendly ingredients.



Pharmaceuticals

Unlock the extraordinary potential of microalgae and revolutionise your pharmaceutical formulations

Microalgae products are used as natural ingredients in pharmaceutical formulations to **improve their efficacy, stability, and shelf-life**. They can also enhance the bioavailability of drugs and reduce their toxicity, making them **safer and more effective**.

At API, we are committed to **pushing the boundaries** of drug development by harnessing the untapped potential of microalgae. Our **innovative approach** not only enhances health and well-being but also fosters **sustainability** in the pharmaceutical industry.



Microalgae Benefits

Health Benefits

Microalgae are known for their high content of carotenoids, including astaxanthin, beta-carotene, and lutein. These carotenoids have various health benefits and are in demand in the pharmaceutical industry.

Cardiovascular Health

Microalgae's potential in managing lipid profiles and blood pressure may lead to pharmaceuticals targeting cardiovascular diseases.

Potential Drug Delivery Systems

Microalgae-based nanoparticles and liposomes present novel drug delivery systems with enhanced bioavailability and targeted drug release.

Neuroprotective Effects

Microalgae-derived compounds have shown neuroprotective potential, offering opportunities in neurodegenerative disease research.

Wound Healing Applications

Microalgae compounds have demonstrated wound healing properties, promoting the development of advanced wound care pharmaceuticals.

Rich in Carotenoids

Carotenoids like astaxanthin, beta-carotene, and lutein have antioxidant properties and are associated with various health benefits, including eye health, skin health, and immune support.

Prebiotic and Probiotic Applications

Microalgae-based prebiotics and probiotics offer new possibilities for gastrointestinal health and disease management.

Rich Bioactive Compounds

Microalgae are a treasure trove of bioactive compounds such as lipids, proteins, polysaccharides, and pigments, offering immense potential for pharmaceutical development.



Products

Microalgae Biomass

Our premium microalgae biomass forms the foundation of our pharmaceutical offerings. Sourced from sustainable cultivation, it is a rich and diverse blend of various bioactive compounds.

Astaxanthin

Derived from various microalgae species, our astaxanthin is a potent antioxidant with numerous health benefits. It shows great promise in pharmaceutical formulations for its anti-inflammatory and neuroprotective properties.

Beta-carotene

Extracted from *Dunaliella salina*, our beta-carotene serves as a pro-vitamin A source, playing a crucial role in eye health and supporting the immune system in pharmaceutical applications.

Chlorophyll

Chlorophyll obtained from *Chlorella* and *Spirulina* offers pharmaceutical applications due to its potential in wound healing, detoxification, and antimicrobial properties.

Carbohydrates

Our microalgae-based carbohydrates act as essential components for the development of novel drug delivery systems, providing sustained release and targeted therapies.

Phycocyanin

Harness the vivid blue brilliance of phycocyanin from *Arthrospira platensis*. With its antioxidant and anti-inflammatory properties, it offers potential therapeutic applications in the pharmaceutical industry.

Phycoerythrin

The vibrant red pigment, phycoerythrin, sourced from *Porphyridium cruentum*, is a promising candidate for photodynamic therapy and fluorescent imaging in pharmaceutical research.

Proteins

With a wide array of microalgae species as sources, our protein-rich extracts have applications in pharmaceutical formulations for tissue repair, cell growth, and enzymatic reactions.

Zeaxanthin

Extracted from various microalgae strains, zeaxanthin's potent antioxidant properties make it valuable for pharmaceutical products targeting eye health and age-related macular degeneration.

Carotenoids

Explore a diverse range of carotenoids sourced from microalgae, presenting pharmaceutical applications for their antioxidant, anti-inflammatory, and immune-modulating potential.

Agriculture

Unlock the Future of Agriculture: Transform Your Crops with Microalgae Innovations

Maximise Nutrient Uptake, Minimise Chemicals: Embrace Microalgae-based Agriculture

We are pioneers in **revolutionising agriculture** with our innovative microalgae solutions. Our biofertilisers, enriched with microalgae extracts, **empower farmers** to enhance soil health, promote plant growth, and achieve **remarkable crop yield increases**. Join us in embracing sustainable agriculture and cultivating **healthier, more resilient crops** through our **eco-friendly** microalgae-based solutions.

Discover the future of **sustainable agriculture** with our microalgae-based fertiliser. As a biostimulant, it **enhances plant nutrition processes**, improving nutrient use efficiency, stress tolerance, and quality traits. Derived from natural microorganisms, our biofertiliser is an **eco-friendly solution** that promotes **long-term environmental sustainability**. Its dual role as a biostimulant and biocontrol boosts crop productivity while reducing reliance on synthetic fertilisers.

Microalgae Benefits

Organic Matter Content

Studies show organic matter content in the soil can increase by up to 40% with the use of microalgae solutions, leading to healthier soil fertility and crop growth.

Microbial Activity

The presence of natural growth-promoting substances in microalgae support microbial activity in the soil, resulting in an increase of up to 50% in the soil's microbial population.

Plant Growth

Microalgae biofertilisers can produce exopolysaccharides, which can improve soil structure and water-holding capacity, leading to better plant growth

Plant Health Management

The anti-stress compounds found in microalgae assist in managing plant diseases and pests, minimising crop losses.

Sustainable Agriculture

Microalgae solutions help minimise environmental impact and enable eco-friendly farming practices.

Releasing Soil Trace Elements

Microalgae release trace elements into the soil, such as iron, zinc, and copper, which are essential for plant growth

Products

Next-generation plant growth additives

Our advanced plant growth additives harness the power of microalgae to stimulate root development, enhance nutrient absorption, and promote overall plant growth. With our additives, crops thrive even in challenging environments, leading to improved productivity and resilience.

Microalgae Biomass

Our microalgae biomass product offers a nutrient-rich and sustainable source of organic matter for soil improvement. Enriched with essential nutrients, it enhances soil fertility, promotes beneficial microbial activity, and supports healthy plant growth. Experience the transformative effects of microalgae biomass on your crops.

Biostimulants and Biofertilisers

Our range of biostimulants and biofertilisers, derived from microalgae, deliver targeted benefits to crops. These products improve nutrient utilisation, enhance stress tolerance, and boost overall plant health. With our microalgae-based solutions, farmers can achieve sustainable and environmentally-friendly agriculture practices



Tailored Solutions for Agricultural Advancement

- **Tailored Solutions:** We offer customised microalgae-based solutions to meet the specific needs of companies in the agriculture industry.
- **Research and Development:** Our team of experts collaborates closely with clients to develop innovative and effective crop-related products.
- **Formulation Expertise:** We provide formulation expertise to optimise the integration of microalgae products into existing agricultural practices.
- **Performance Enhancement:** Our custom solutions aim to enhance crop performance, improve yield, and promote sustainable agriculture.
- **Best-in-Class Technology:** Through cutting-edge technology, we ensure controlled purity levels in our products, delivering consistent and reliable results.



Sustainable Excellence: Algae Solutions for Global Impact

As a top UK-based innovator in algae products, we're dedicated to delivering bespoke solutions that surpass industry standards. Our global presence guarantees businesses worldwide benefit from our advanced technology, achieving unmatched sustainability and product quality.

Collaborate with our dedicated R&D team and witness the transformative power of tailored algae solutions. Our state-of-the-art technology guarantees high-end products with meticulously controlled purity levels.

Join the forefront of innovation with us, as we redefine possibilities in the realm of algae-based solutions, setting new benchmarks for a sustainable and quality-driven future.





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 info@algae-products.com

 +44-1792-000-001

 Algae Products International Ltd.
Clydach Refinery, Glais Road
Clydach, Swansea SA6 5QR
Wales, United Kingdom



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