

# AquaeCare



NATURAL WHOLEFOOD SUPPLEMENTS

*Energy for Life*



AquaeCare

## COMPANY

At Aquae Care, we have over 30 years of experience in harvesting the gifts of nature and bringing them to the world. Aquae Care is anchored in a powerful line of natural superfood supplements, scientifically designed and produced on-site to exacting industry standards.

### Aquae Care's product line includes:

- Wild AFA™ organic microalgae
- Wild AFA Extract™
- StemPlex® – Natural stem cell nutrition

Aquae Care's other natural supplements include antioxidants, medicinal mushrooms, digestive and systemic enzymes, probiotics, immune support, cardiovascular health, and sports and active lifestyle nutrition.

These offerings are available as finished products with your proprietary label, bulk capsules, bulk tablets, and bulk powders. We also provide product development and custom formulation services. Applications for Aquae Care's products include dietary supplements, foods, beverages, and personal care products.

Aquae Care maintains the highest manufacturing standards to ensure the integrity of our product line. Our company is registered by a third party public health and safety organization to United States Food & Drug Administration's (USFDA) Good Manufacturing Practices. Aquae Care also holds a GMP for Sport™ registration, so you can be assured that all products do not contain any substances banned by sports associations.

### WILD HARVESTED ORGANIC MICROALGAE

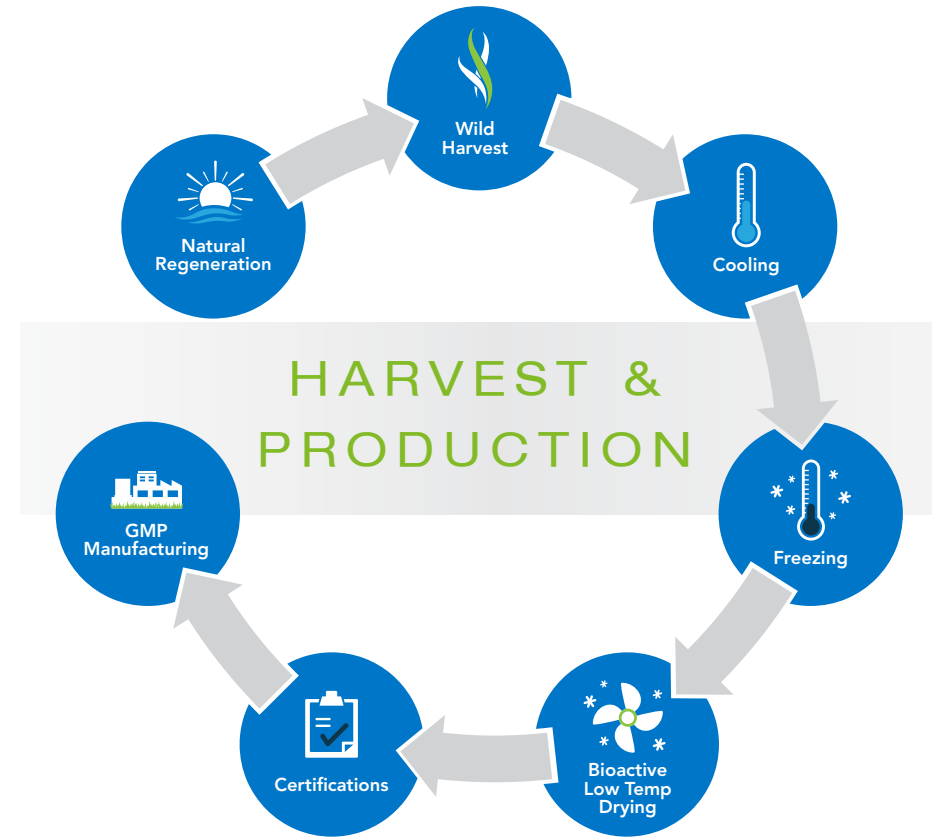
Over 30 years ago Aquae Care discovered and brought Wild AFA to market. The science, research, and anecdotal evidence has continued to emerge on one of the most profoundly nourishing foods on the planet. Our microalgae, rich in a wide spectrum of phytonutrients, plant-based proteins, minerals, essential fatty acids, and dozens of micronutrients, has consistently delivered remarkable health benefits to consumers worldwide.

*Aphanizomenon flos-aquae* (AFA) is a unique species of organic microalgae that are among the most ancient of all living organisms. Cyanobacteria provide oxygen to Earth's atmosphere and nutrients to marine life and are the subject of current research ranging from medicinal properties to biofuel. Cyanobacterium has been consumed as a food by a number of ancient peoples.

Algae are the basis of the entire food chain—the foundational nutrient source for life on Earth. AFA is one of the planet’s most basic, yet most powerful raw foods. Today, this edible microalgae is widely confirmed as the original ‘superfood’ that provides many, broad-range benefits:

- Supports good physical health and biomodulation
- Provides 20 natural essential amino acids that feed and enhance brain activity\*
- Promotes enhanced absorption and assimilation of food nutrients\*
- Helps to maintain normal cholesterol levels\*
- Maintains healthy immune system function\*
- Provides a natural, vegan source of omega-3 and omega-6 essential fatty acids
- Offers a convenient and affordable daily supply of a vast array of micronutrients

Tucked away in the Cascade Mountains of southern Oregon, USA, fed by a network of mountain streams and springs, anchored in deep volcanic soil and mineral-rich sediment, beautiful Klamath Lake is Nature’s only abundant source of AFA, a wild, edible microalgae. To tap this renewable nutrient resource, Aquae Care developed custom equipment to harvest, process, and package the algae in the form of wild, natural, whole-food dietary supplements.



### HARVESTING AND PROCESSING

At Aquae Care, microalgae is handled with extreme care, ensuring that its extraordinary nutritional properties are preserved and protected throughout processing. Our proprietary system takes into account that freshwater algae are more sensitive to heat than their cousins, the edible seaweeds (macroalgae). Valuable nutrients are easily lost if microalgae are not handled carefully during every stage of harvesting and processing. The unique, efficient, and eco-friendly harvester designed and built by Aquae Care utilizes methods and technology that contribute to the exclusive quality of our AFA. Aquae Care uses Bioactive Dehydration<sup>®</sup>, a low-temperature, organic, and kosher-certified drying process that preserves natural vitamins, enzymes, and other phytonutrients. Testing indicates that the quality of this drying system is superior to freeze-drying, especially for heat-sensitive nutrients such as chlorophyll and enzymes. In addition, because the algae is dried at temperatures below 105° F, it qualifies as a “raw food,” an important distinction to many health-conscious consumers.

## QUALITY ASSURANCE

Aquae Care is highly conscientious about guaranteeing the quality of the wild-crafted algae we harvest, process, and market. Wild AFA is processed according to Good Manufacturing Practices (GMPs). Every harvest undergoes stringent Quality Assurance procedures, ensuring only the highest quality finished products. In addition to in-house testing, regular analyses are conducted by independent laboratories to verify the potency and purity of Aquae Care's microalgae. We use state-of-the-art equipment, and comply fully with all regulations of the Oregon Department of Agriculture (ODA) and the USFDA. Aquae Care utilizes the expertise of world-class algal scientists to remain current with the latest research and technology available, most notably Dr. Wayne Carmichael a Professor Emeritus at Wright State University, and Dr. Don Anderson of Woods Hole Oceanographic Institution. We take great pride in producing safe, premium quality, naturally wholesome nutritional supplements.

## CERTIFICATIONS



**NSF/GMP** - We maintain our own manufacturing facilities that are registered by NSF International to FDA's Good Manufacturing Practices. Our facilities are also registered GMP for Sport™ so customers can be assured that none of Aquae Care's products contain banned substances.

**ORGANIC** - Aquae Care's facilities and microalgae are certified organic to the U.S. Department of Agriculture's National Organic Program. For over 10 years, OCPP/Pro-Cert of Canada has performed thorough annual audits of our processing facilities and continues to certify our entire operation as compliant with the USDA, JAS, and EU requirements for organic certification. Additionally, the watersheds that feed into Klamath Lake are monitored for organic compliance.

**KOSHER** - Star-K of Baltimore, Maryland, certifies Aquae Care's facilities and products to kosher standards. A representative from Star-K annually inspects our facilities, products, and documentation. Representatives for Star-K also inspect all of the operations of vendors that produce and supply kosher-certified products to Aquae Care.

**HALAL** - The internationally respected Islamic Food and Nutrition Council of America (IFANCA) developed a procedure for producing halal (meaning 'lawful' or 'permitted') products that assures consistent methodical cleanliness throughout the entire production process. IFANCA inspects

Aquae Care's facilities and processes, and has certified Wild AFA to halal standards.

**PALEO** - The Paleo Friendly certification was developed and trademarked by the The Paleo Foundation Inc. to identify food products that meet the standards of the Paleo Diet and require that products are grain-free, legume-free, dairy-free, with no artificial additives or preservatives.

## ORGANIC MICROALGAE - A NUTRITIONAL POWERHOUSE

People experience a wide variety of positive results by consuming Aquae Care products formulated with Wild AFA. Current health research on microalgae reveals increasing interest on the unique benefits of making algae-based food supplements a significant part of a daily balanced diet.

The nutritional profile of AFA is impressive, and years of extensive research documents the various health benefits. It is important to remember that the unique combination of a wide variety of essential nutrients in one source, not the amount of each component, makes Aquae Care's organic microalgae such a logical first choice for dietary food supplementation.

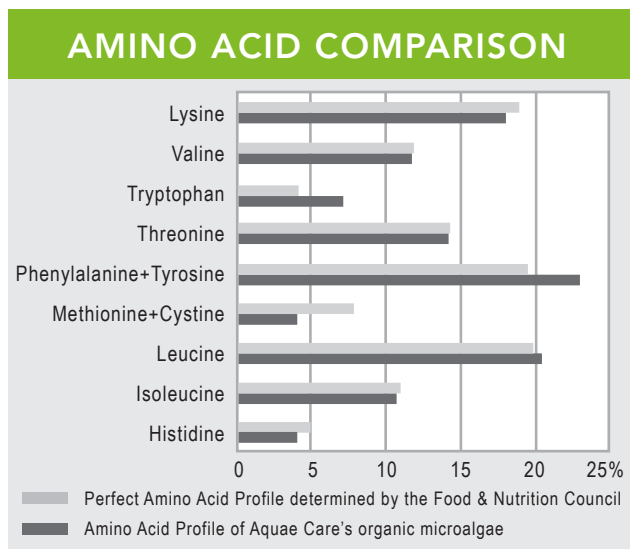
### Aquae Care's microalgae Contains:

- All 20 amino acids, providing a complete source of protein in an amino acid profile nearly identical to human breast milk
- Essential fatty acids, including Omega-3 and Omega-6 in an ideal balance
- Dozens of vitamins, minerals, and trace elements
- The mental energy activator phenylethylamine (PEA)
- Powerful antioxidants, such as chlorophyll, superoxide dismutase (SOD), glutathione, and phycocyanin
- An ideal balance of proteins, carbohydrates, fats, complex carbohydrates and fiber

## AMINO ACIDS

Amino acids are the building blocks of protein. Protein molecules often make up more than half of the physical structure of all cells and tissues. Of the 20 total amino acids, 11 are non-essential amino acids that the body can synthesize and 9 are essential amino acids the body cannot synthesize, and must be consumed from food sources. AFA contains all of them! This is most unique among all food plants. Each amino acid offers a variety of health benefits, but together they provide vital fuel and energy, build and maintain neuropeptides, and help biomodulate emotion and mood swings.\*

The chart below illustrates how closely AFA's amino acid profile matches the ideal profile recommended by the Food & Nutrition Council.



## ESSENTIAL FATTY ACIDS

### Omega 3 & Omega 6

Microalgae supplies essential fatty acids (EFAs) in an all-natural vegan form. EFA's are "good fats" vital to the flexibility and fluidity of all cells. EFA's are required for the normal growth and repair of the skin, blood vessels, and nerve tissues. They build, maintain, and repair cell membranes. Without healthy cell membranes, none of the other miraculous activities of cells would be possible. EFA's have dynamic lubricating qualities that can actively increase the solubility of cholesterol deposits, thereby helping to maintain healthy cholesterol levels\*.

<b>Total Lipid Content</b>	<b>4+% (dry weight)</b>
Total Essential Fatty Acids	45%
Omega 3	37%
Omega 6	8%

Approximately 45% of the lipids (fats) within AFA are essential fatty acids. Wild AFA contains both Omega 3 and Omega 6 in an ideal ratio. Researchers at Massachusetts General Hospital who studied its fat content conclude that edible microalgae is a good source of the most valuable fatty acids and "should be a valuable nutritional resource" (Kushak et al. Favorable effects of bluegreen algae *Aphanizomenon flos-aquae* on rat plasma lipids. JANA 2(3):59-65). Interestingly, the findings revealed that Omega 3 raises the levels of the good fatty acids far more than would be expected based on its Omega 3 content alone. The "good" fatty acid (ALA,

EPA, DHA) levels increased, and the levels of "bad" fatty acid (arachidonic acid) decreased.

## PHENYLETHYLAMINE (PEA)

### Energy, Mood & Focus

PEA, a naturally occurring compound in AFA, has been linked to energy, mood, and focus. Studies indicate that PEA may work as a neurotransmitter that helps send and receive signals in the brain. PEA is a natural activator present in plants, animals, and humans. It exists naturally in the human central nervous system and is responsible for the emotional experience associated with pleasure and mental awareness; it supports mental energy, mental clarity, concentration, and attention, and is a known natural mood enhancer.

## CHLOROPHYLL

Numerous surveys show that 80% of North Americans fail to receive adequate amounts of fruits and vegetables in their daily diets, as recommended by the USDA and the National Cancer Institute. Consuming "green foods"—nutrient-dense, minimally processed whole foods—is one important way to achieve a healthy diet and lifestyle. But what makes green foods so great? One factor is chlorophyll and AFA has a remarkably high chlorophyll content.

Chlorophyll is the green pigment in plants that is essential in the photosynthetic reactions that convert radiant energy from the sun into chemical energy for life processes. Inside the cells of green plants, chlorophyll combines with carbon dioxide and sunlight to form oxygen and simple sugars. Chlorophyll is also an excellent source of antioxidants and has many beneficial nutritional properties.

The chlorophyll integrity in Aquae Care's microalgae, the highest in the industry, is monitored using independent laboratory analysis according to the widely used and accepted Japanese Food Hygiene Association method.

## PHYCOCYANIN (PC)

The word 'phycocyanin' is derived from the Greek phyco meaning 'algae' and kyanos meaning 'blue'. This pigment is responsible for the intense color of Aquae Care's microalgae. The richest sources of phycocyanin in nature are microalgae like AFA, which contains 15% PC by dry weight. PC is a light-harvesting protein that contributes to photosynthesis and has been shown to exhibit a variety of beneficial health properties. Most importantly, it acts as an antioxidant to help neutralize the damaging effects of free radicals.

## SUPEROXIDE DISMUTASE

AFA also contains superoxide dismutase (SOD) which refers to a family of enzymes that play a critical antioxidant role in the human body.

## GLUTATHIONE

Glutathione, found in AFA, is a powerful antioxidant that plays key roles in many metabolic functions, including iron metabolism, synthesis and repair of DNA and proteins, and enzyme function. Sometimes viewed as the “master antioxidant,” glutathione is the subject of a vast amount of research.



## THE SCIENCE

### WILD AFA MICROALGAE RESEARCH

#### Investigate the science behind the phenomenon

Throughout the years AFA has been researched to better understand and document the profound benefits on physical and mental health. These benefits discovered in the research spans from immunity to stem cell proliferation to antioxidant properties and much more! With all of the research presented and confirmation from personal testimonies, overall we can conclude that Wild AFA is an effective superfood that has become an important component of a healthy diet for millions.

### WILD AFA

Wild AFA is the whole algae, providing proteins and natural complex carbohydrates critical for the health of tissues and cells. Because it contains such a broad-range of proteins, polysaccharides, vitamins and minerals, pigments, antioxidants, amino acids, and essential fatty acids, Wild AFA is the ideal natural complex for optimal physical health.\*

## WILD AFA EXTRACT

Wild AFA Extract is the heart of the algae with the cell wall carefully removed, allowing greater access to the high overall amino acid and EFA content, which makes Wild AFA Extract an abundant source of raw materials that feed and enhance brain activity.\*

## STEMPLEX® - STEM CELL NUTRITION

StemPlex® is a unique, patented combination of natural ingredients that have been found to work synergistically to support the growth of, and protect, adult stem cells. Research suggests that these nutrients can help promote natural adult stem cell renewal in your body by means of an interaction with those stem cell populations. The StemPlex® formula help this process in two ways. First, by providing nutrition for stem cells to reproduce. Second, via its antioxidant capacity, by protecting existing stem cells from the harmful effects of free radicals.

This antioxidant capacity is especially important because during the natural aging process as adult stem cells are known to have a reduced regenerative capacity. As oxidation of iron causes rust, our bodies heal less effectively if cells are damaged by free radicals. Antioxidants can reduce the body's vulnerability to age-related health issues, and so help us achieve a healthier life.

Developed by leading university scientists, this remarkable formula assists in the propagation of adult stem cells, which, when combined with proper diet and exercise, support the maintenance of optimal health.

Explore the science behind Aquea Care at [www.aqueacare.com](http://www.aqueacare.com).



\*These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure, or prevent any disease



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