FUCO React

Fucoxanthin - Phaeodactylum Tricornutum

Powerful Reactive Oxygen Species Scavenger That Can Act As a Therapeutic Agent

Fucoxanthin is a carotenoid that acts as an accessory pigment to the photosynthetic system. This role is of huge importance to any organism that utilizes light as an energy source. Accessory pigments such as fucoxanthin absorb light within the blue-green to yellow-green spectrum (450- 540 nanometer), a spectrum that chlorophylls are blind to. Fucoxanthin can be found in brown seaweeds and diatoms. The highest concentration of fucoxanthin per biomass (up to 2%), can be found in Phaeodactylum Tricornutum. In recent years, the importance of carotenoids to the human body has become revealed. The usage of beta-carotene, astaxanthin, and lycopene as food supplements have been known to the food additive industry for a few decades now. Academic research has revealed that carotenoids can actually act as a therapeutic agent for actual diseases and other conditions.

Fucoxanthin is a powerful Reactive Oxygen Species scavenger and as such, it can be used in a wide range of conditions caused by Reactive Oxygen Species, starting from wrinkles, tissue aging, and even cancer. Fucoxanthin is already being used as food supplement for the treatment of fatty liver. Research suggest that this powerful pigment can be used to assist with obesity, and repairing UV radiation damage to the skin.

APPLICATIONS

Personal Care

Nutraceuticals

Fucoxanthin will be produced commercially in the first quarter of 2021

About Yemoja

At Yemoja, we cultivate a wide variety of micro-algae species and bring unique state-of-the-art biotechnology standards to the microalgae industry, producing a range of products for different high value industries. We help overcome industry challenges such as scalability of production systems, sustainability, compliance, and flexibility, by producing microalgae at scale with all-natural processes which can be easily and rapidly scaled up and adapted, meeting the highest industry standards.

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