



FSS Algae Oil

Code Number: FSS16084
INCI Name: *Laminaria Digitata* Extract
INCI Status: Conforms
REACH Status: Complies
CAS Number: 90046-12-1
EINECS Number: 289-980-0
Origin: Botanical
Processing:
GMO Free
No Ethoxylation | No Irradiation | No Sulphonation
Additives: None | **Preservatives:** None | **Antioxidants:** None
Other additives: None
Solvents used: N/A
Appearance: Yellow to Light Amber, Clear to Slightly Hazy Liquid
Soluble/Miscible: Oil Soluble
Suggested Use Levels: 1.0 - 10.0%
Suggested Applications: Moisturizing, Conditioning



BACKGROUND

Within the deepest of oceans, is the secret to aging gracefully. **FSS Algae Oil** is a unique algae derived oil that can fight the signs of aging naturally. The use of algae derived ingredients in cosmetics is increasing as consumers recognize it as a natural and sustainable resource. Little do they know, that algae can also be responsible for younger, more beautiful skin. According to ancient legends, mermaids have long been admired for their beauty, which they credit to the benefits of seaweed¹. While seaweed is not only nutritious, it can also restore the skins' epidermal lipid balance thus leaving skin looking fresh and vibrant. Now that this beauty secret has evolved into skincare, we can all utilize its benefits. *Laminaria digitata* is the seaweed that stands out when it comes to beauty, containing almost every mineral listed on the periodic table!

SCIENCE

Laminaria digitata is large, brownish green algae that thrives deep within the North Atlantic. This species of seaweed is rich in vitamins, minerals and various trace elements. Used frequently in Chinese foods and associated with healing, this seaweed is also a good flavor enhancer to many dishes. When eaten, many perceive seaweed as salty however, this is misleading because it is actually due to a combination of chelated minerals found in seaweed such as sodium, potassium, calcium, magnesium, phosphorus, iron and other trace minerals. Seaweed is found to be richer in vitamins and minerals than seawater.

These minerals work as co-factors in many enzymatic reactions such as protein synthesis and cell reproduction, while algae oil is responsible for replenishing lipids within the skin. Algae oil works to enhance barrier function, as loss of moisture is a key component of skin aging. By replenishing the skins lipids, its natural moisture levels are restored therefore minimizing the appearance of fine lines and wrinkles on the skin. In hair care, algae oil can moisturize and condition the hair thus reducing breakage, while also nourishing and conditioning the scalp.

BENEFITS

FSS Algae Oil can be used in a wide variety of cosmetic and personal care applications intended to deliver conditioning and moisturizing properties. This unique ingredient can also be used to capitalize on the trends for sea-inspired products in cosmetics. **FSS Algae Oil** so the benefits from algae can cross over into skin and hair care products for a young, refreshed look straight from the sea.

References: 1) MacKenzie, D. Myths of Bablonia and Assyria. Gresham Publishing Company. London. 1915.

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