



ELEMENTE

Refresh Skin with Botanical Treasures of the Sea



Algae Extract and Seaweed Extract

Skin, like any part of the body, has to be nourished daily to resist the threats of aging and environmental stress for smoothness, suppleness and radiance—hallmarks of youthful skin.

Seaweed and marine algae inhabit the ocean's edges, where they are protected by mineral-rich seawater during high tides and exposed to the same environmental aggressors as skin during low tides. They have adapted to this environment to possess beneficial qualities and nutrients including minerals, fucoidans, meroterpenoids, and phlorotannins, making algae extract and seaweed extract ideal for skin nourishment.



Skin Challenge 1: Smoothness

The skin regenerates itself every 28 days. Between the ages of 30 and 80, however, this rate is reduced by 30–50%, leading to dry, rough, dull, and uneven skin.

Skin Challenge 2: Suppleness

As we age, our skin also becomes thinner, drier, and more fragile, leading to visible lines and wrinkles. Additionally, aging skin repairs itself more slowly than younger skin, and wound healing may take up to four times longer. The rate of collagen and elastin production is also reduced. This causes the skin to become less firm and less elastic.

Skin Challenge 3: Radiance

A pigment named melanin largely determines the distinctive color of our skin. Melanin is located in the epidermis, and is produced by specialized cells called melanocytes. The amount of melanin in the body is largely genetic, but can also be affected by radiation from ultraviolet (UV) rays. Under exposure to UV rays, melanocytes respond by producing melanin, which acts as a protective shield against this dangerous radiation.



Besides UV radiation, frequent smoking, high alcohol consumption, stress, and poor dietary habits contribute to hyperpigmentation (overproduction of melanin), causing darkening of skin tone and dull complexions.

1. Prevent Free Radical Damage

Antioxidants inhibit free radical damage. One antioxidant found in seaweed extract, fucoidan, was tested on human skin fibroblasts exposed to UVB radiation. Fucoidan's antioxidant properties helped to inhibit malondialdehyde (an oxidative stress marker) by 8.4% and to increase glutathione (an antioxidant) levels by 5.8%. Other antioxidants in seaweed extract include carotenoids and niacin.



2. Promote Skin Fairness

By inhibiting tyrosinase, a key enzyme for production of melanin, less melanin is produced. Various tyrosinase inhibitors have been found in marine algae. These include phlorotannins, some of which can inhibit tyrosinase activity more effectively than other tyrosinase inhibitors.

3. Protection from UV Radiation

Marine algae have high levels of compounds that help to protect skin from UV radiation, such as mycosporine-like amino acids (MAAs), carotenoids, and polyphenols. Research suggests that MAAs can absorb UV rays to protect marine algae from UV radiation damage; some even have antioxidant activity.

4. Stimulate Collagen Production

Seaweed extract helps to stimulate collagen formation and cellular turnover. Fucoidans, in addition to inhibiting malondialdehyde, also help promote new blood vessel growth. Furthermore, an experiment on human skin fibroblasts revealed that fucoidan significantly inhibited matrix metalloproteinase-1 (a substance that breaks down cells' structural support) activity and decreased the reduction of type I procollagen, the most abundant collagen in the human body, that often occurs with UVB radiation.



5. Improve Skin Suppleness and Hydration

Seaweed extract has the ability to help in skin repair, skin elasticity, and firmness, and eliminate toxins from the skin, thereby helping to delay visible signs of aging. It reacts with skin proteins to reduce moisture loss.

Scientific evidence suggests that algae extract can increase skin hydrating and firming effects, and is an effective, non-toxic, and abundant source of natural compounds that promote skin elasticity and inhibit factors that reduce elasticity.



Nourish Skin for Resilience

Healthy skin is naturally radiant. In addition to diligent application of nourishing ingredients, include a wide variety of nutritious plant foods in your diet for resilient skin to withstand any assault that comes its way and remain youthful looking.



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