



Active Sea

Product Name: Active Sea

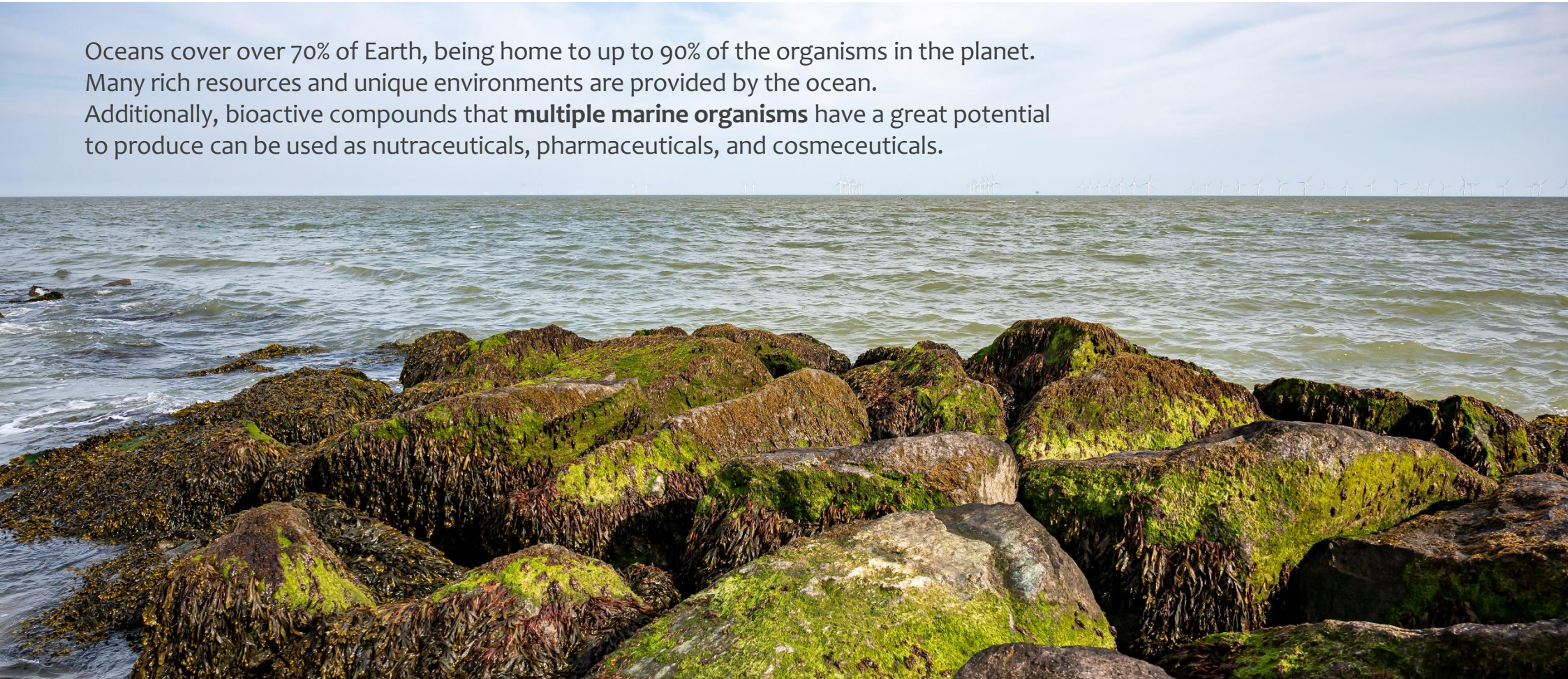
Plant Name: Bladderwrack

Scientific name: *Fucus vesiculosus*

Potential of seaweed

Active Sea

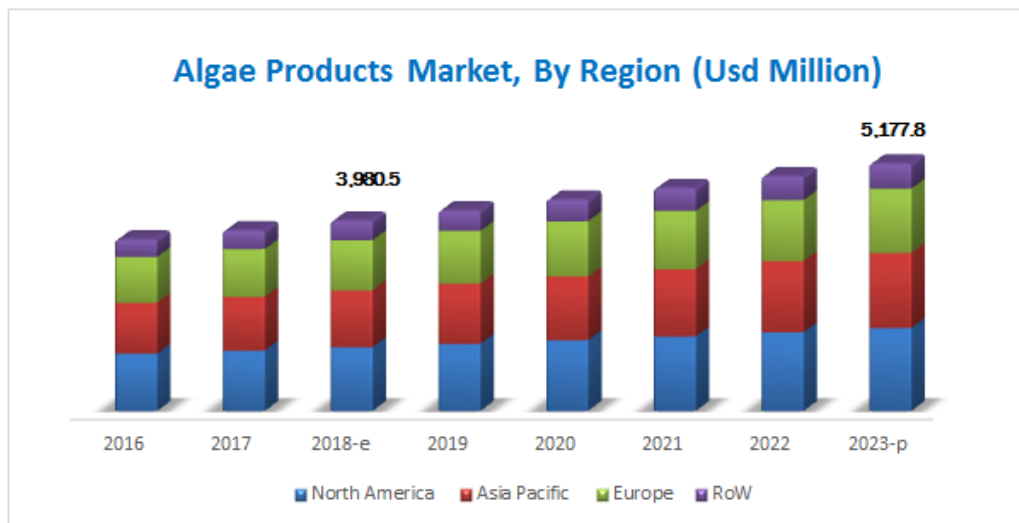
Oceans cover over 70% of Earth, being home to up to 90% of the organisms in the planet. Many rich resources and unique environments are provided by the ocean. Additionally, bioactive compounds that **multiple marine organisms** have a great potential to produce can be used as nutraceuticals, pharmaceuticals, and cosmeceuticals.



Reference: Pereira, L. (2018). Seaweeds as source of bioactive substances and skin care therapy—Cosmeceuticals, algotherapy, and thalassotherapy. *Cosmetics*, 5(4), 68.

Global algae products market

Active Sea



- According to a research report, the global algae products market is expected to grow significantly in the near future.
- This is perhaps because the consumer's demand for **safe and effective products using natural and sustainable ingredients** is rising.
- As a harmless, efficient and sustainable natural ingredient, algae exhibited strong benefits to the skin and showed many potentials.

Reference: <https://www.marketsandmarkets.com/Market-Reports/algae-product-market-250538721.html>

Bladderwrack

Active Sea



Bladderwrack (*Fucus vesiculosus*) is a type of brown seaweed that's tied to traditional medicine. It's also known as rockweed, red fucus, dyers fucus, rock wrack, black tang, and bladder fucus.

Growing up to 35 inches (90 cm) tall, bladderwrack grows along the coastlines of the Atlantic and Pacific Oceans, the North and Baltic Seas, and various waters in Canada and the United States.

Traditional medicinal practices have used it for centuries to treat an array of conditions, such as iodine deficiency, obesity, joint pain, aging skin, digestive issues, urinary tract infection, and thyroid dysfunction, including hyperthyroidism, hypothyroidism, and goiter development.

Rich in vitamins, minerals, and antioxidants, many people believe that bladderwrack's impressive nutrient profile can provide health benefits.

Reference: <https://www.healthline.com/nutrition/bladderwrack-benefits>



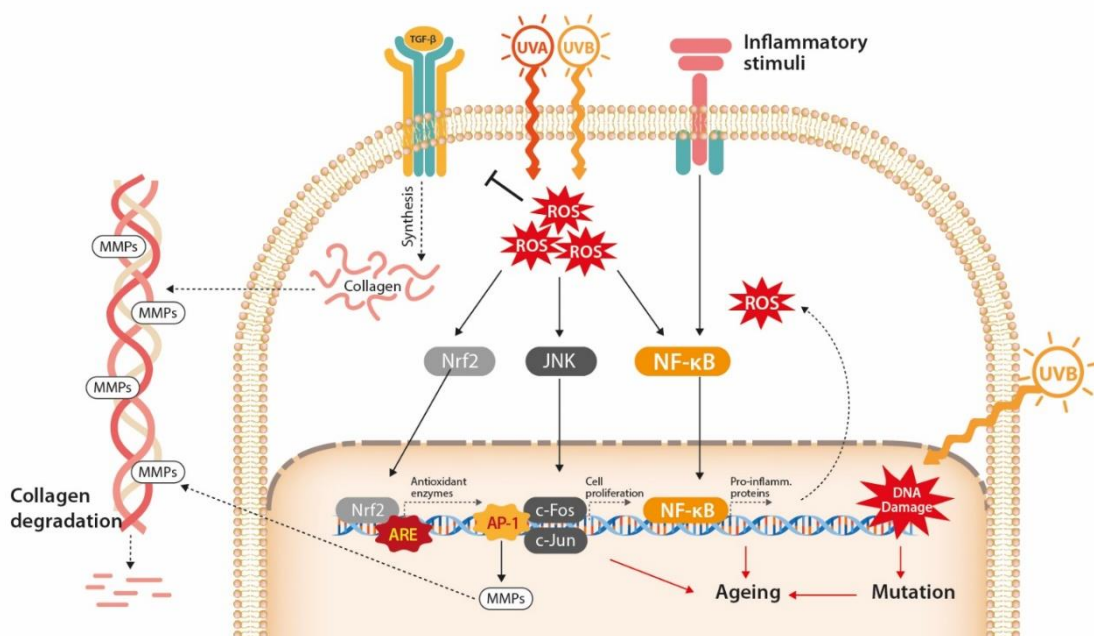
Efficacy test

Antioxidant / Anti-wrinkle / Anti-pollution

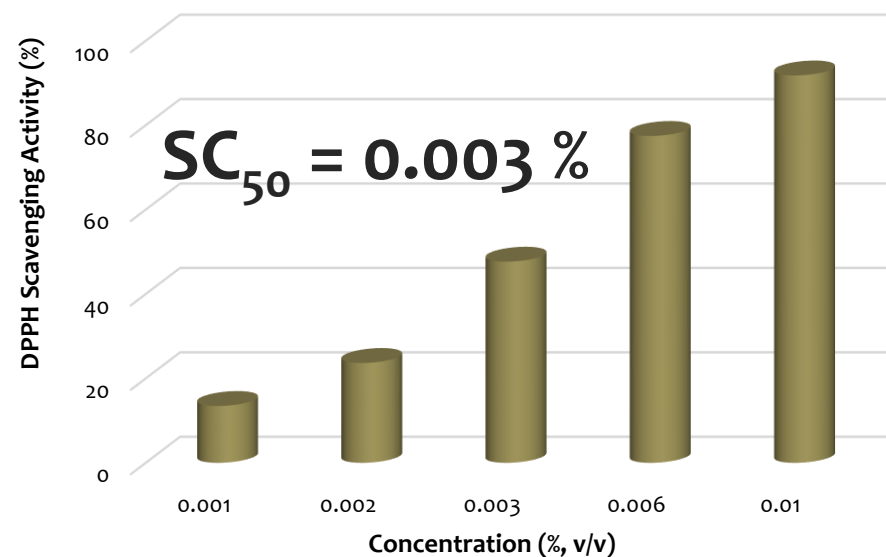
Antioxidant Efficacy

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Our skin is under attack from many factors in daily life, such as UV, pollution and stress. These factors increase the Reactive Oxygen Species (ROS), which plays a major role in the skin aging process.



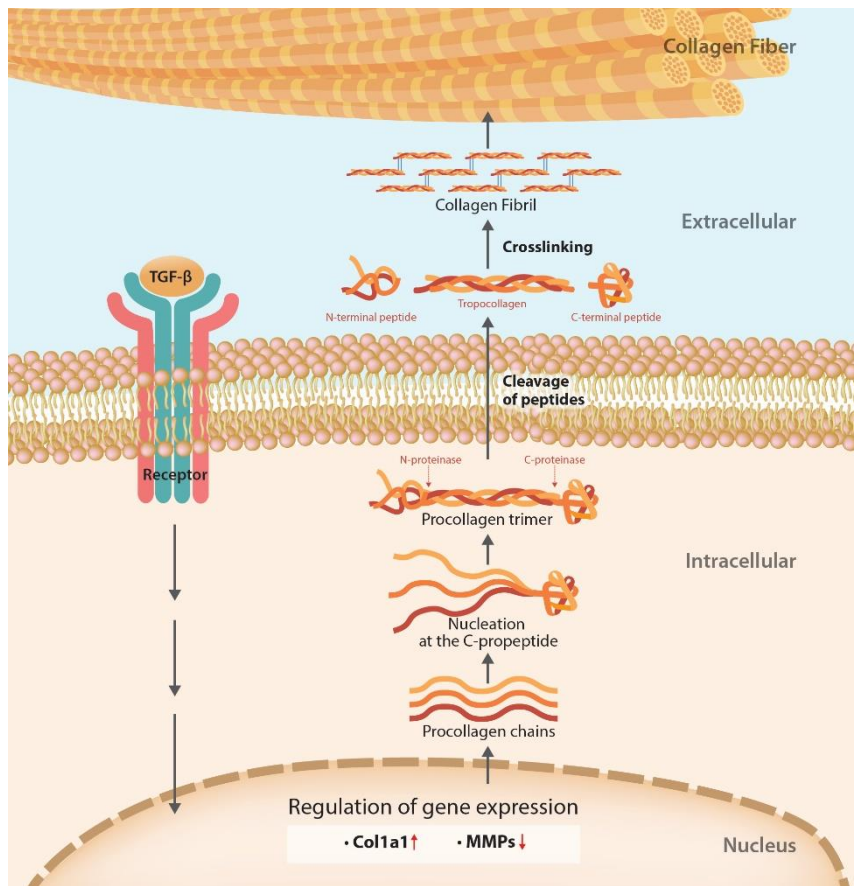
Free Radical Scavenging Activity (*in tubo*)



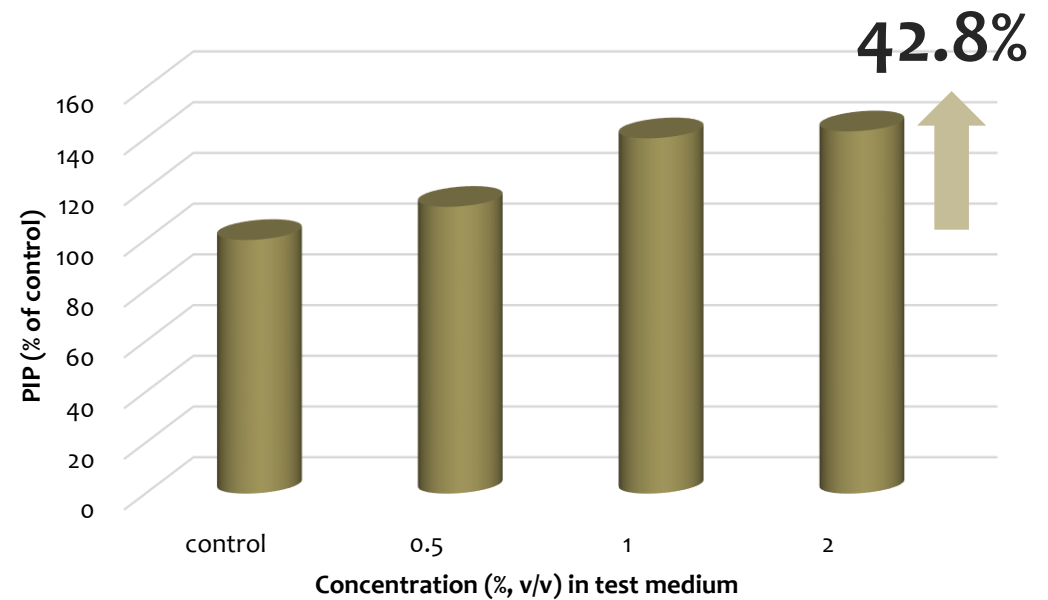
Anti-wrinkle Efficacy

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As people get older, collagen production is reduced which is the major structural protein that gives the skin strength and elasticity. Active Sea showed anti-wrinkle efficacy by increasing of procollagen synthesis.



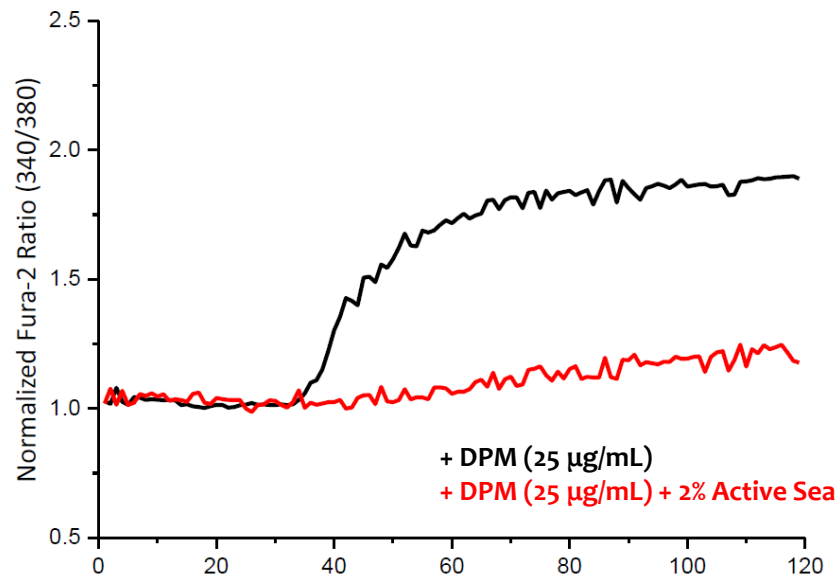
Procollagen Peptide Synthesis Activity (*in vitro*)



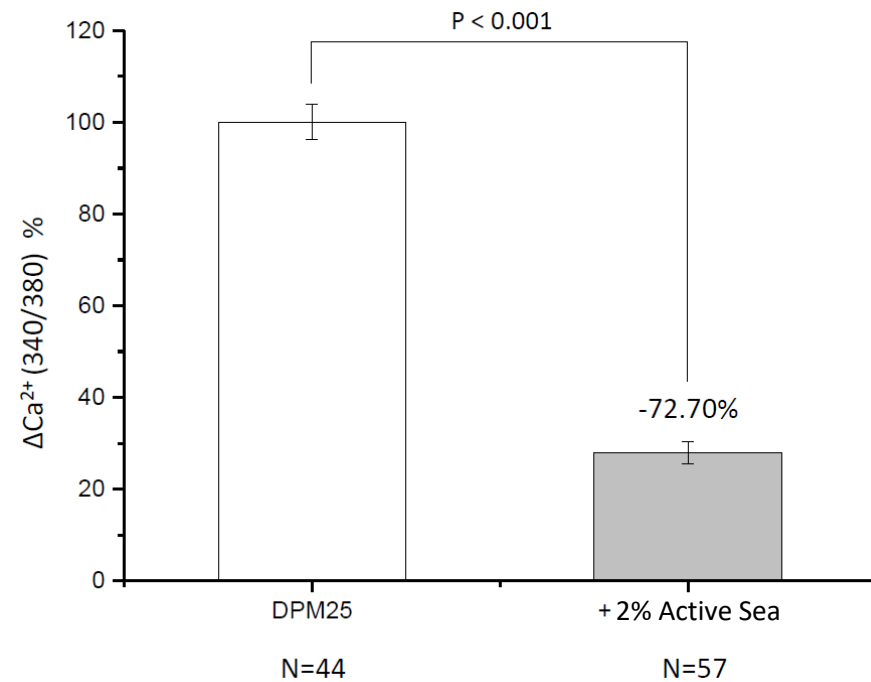
Anti-pollution Efficacy

Active Sea

Intracellular Ca^{2+} influx was found to be transiently increased by DPM, and Active Sea regulated Ca^{2+} influx in human keratinocytes. Active Sea has an anti-pollution effect by inhibiting Ca^{2+} influx.



* DPM: Diesel Particulate Matter



Summary

Trendy

Safe
&
Natural

Multi-
efficacy

Harnessing the power of the ocean

Product Information



Product Name : Active Sea

INCI name : Fucus Vesiculosus Extract

IECIC 2015 : Fucus Vesiculosus Extract

CAS No : 84696-13-9

EINECS (I) / ELINCS (L): 283-633-7 (I)

Dosage : 1 – 3%

Efficacy: Antioxidant, anti-wrinkle and anti-pollution effects



The Secrets of Caledonia

The Secrets of Caledonia (TSOC) is a supplier of natural cosmetic ingredients inspired by Scottish traditional herbal medicine. Taking advantage of Scotland's biodiversity and working in collaboration with established Scottish herbalists, we aim to provide the most effective and innovative natural ingredients at the highest quality.



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