

OCEAN – INSPIRED SCIENCE

From Source of Life to
Our Beauty and Wellness

The Next Level - Blue Beauty

FucoSkin® | OliFuco®

Discover Ageless Beauty and Holistic Wellness from Sustainably Harvested Seaweed



Protection from the Nature

Fucoidan is highly bioactive compound that play a pivotal role in protecting seaweed from water-borne pathogens and damage caused by ultraviolet light (UV).

From Superfood to Super “Skin Food”

Fucoidan, originally known for its remarkable health benefits in the realm of dietary supplements. As a company dedicated to enhancing well-being, Hi-Q has embarked on a continuing journey to explore the vast potential of Fucoidan and its application in the realm of skincare. Not only did Fucoidan exhibit exceptional health-enhancing properties when ingested, but it also showcased immense potential for nurturing and rejuvenating the skin. Through extensive research and innovation, Hi-Q successfully developed FucoSkin®, a functional ingredient specifically designed for use in skincare products.

The skin absorption and biological activity of fucoidan compounds exhibit an inverse relationship with the molecular weight of the molecules. Consequently, fucoidan compounds demonstrate higher activity when the polysaccharide chain is shorter. Unlike larger polysaccharides that tend to remain on the skin's surface, FucoSkin® exhibits exceptional penetration capabilities.

THE FUSION OF NATURE'S GIFT AND ADVANCED TECHNOLOGY

Hi-Q Marine Biotech

Embarking on a journey deeply rooted in eco-friendly aquaculture, Hi-Q Marine Biotech has devoted over two decades to the exploration and research of ocean science. Amongst the pioneers in providing brown seaweed health supplements, our brand embraces a noble mission: "safeguarding the health and wellness of the entire family."

At Hi-Q, we strive to help everyone enjoy a healthy lifestyle with quality products made of highly efficacious ingredients backed by rigorous scientific research and scrutiny, and going beyond the mere provision of these products and ingredients, Hi-Q is driven by a relentless pursuit of internationalization, embodying the essence of our corporate philosophy—Nature, Health, and Happiness.

Hi-Q's Collaboration with Small Seaweed Farmers in Matsu Island

Sustainable Farming and Harvest

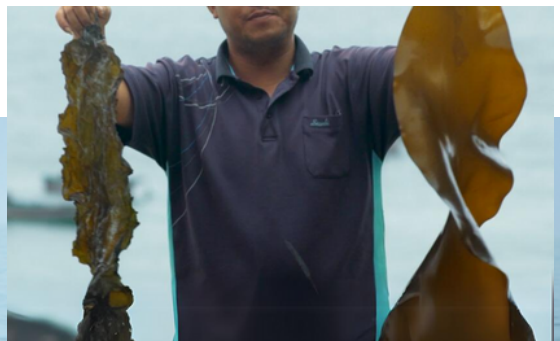
This partnership network is not only about creating exceptional skincare and wellness products, but it's also about championing the principles of the Blue Economy.

Taiwan's Matsu Island is renowned for its crystal-clear ocean. The seaweed cultivated in these unpolluted surroundings is naturally enriched with essential minerals and nutrients, making it the perfect ingredient for skincare products.

Sun-Kissed Seaweed

After the seaweed is carefully harvested, it's the local farmers who take charge of the next crucial step - sun-drying.

They capitalize on the power of natural sunlight to gently and meticulously dry the seaweed, preserving its quality and nutrient content while reducing our carbon footprint. This artisanal process, overseen by the skilled hands of these dedicated farmers, ensures that every strand of seaweed used in Hi-Q's skincare products is of the highest quality. It's a commitment to excellence and sustainability, from the moment the seaweed is harvested to the time it becomes an essential component of numerous skincare products.





FUCOSKIN®

FucoSkin® is an exceptional fucoidan-polysaccharide-rich extract, harnessed from the brown algae *Laminaria japonica* using a cutting-edge aqueous extraction process. This remarkable compound has undergone rigorous clinical testing and is proudly Halal certified.

FucoSkin® acts as a powerful anti-aging and anti-wrinkle active ingredient. It helps significantly reduce the depth of wrinkles, improve skin elasticity and dermal collagen structure, thus reversing the signs of aging. It is also a good inhibitor of the collagen-degrading enzymes, known as "matrix metalloproteinases" (MMP) and can specifically downregulate UVB-induced MMP expression to prevent premature aging of skin.

Outstanding for Anti-Aging and Photo-Aging Protection

Clinically Tested

- Holistic Anti-Aging
- Improve Dermal Collagen Structure in just 7 days

Improvement Rate - 7 days

	1% FucoSkin®	3% FucoSkin®
Texture	22.4%	49.0%
Elasticity	3.9%	5.7%
Pores	12.2%	40.1%
Skin Spots	8.4%	12.3%
Skin Redness	5.5%	7.2%

Improvement Rate - 1% FucoSkin®

	7 days	14 days
Dermal Collagen Structure	22.6%	25.0%

Volunteers: 25 female randomly selected, aged 30-60 years old. | Procedure: A based cream containing 1% and 3% FucoSkin® applied once daily after cleansing (night) for 7 and 14 days. | Results assessment: VISIA® Analysis System, Cutometer® MPA580 and DERMALAB® COMBO skin analysis system were used.

In vitro Test & Mechanism

- **Anti-Aging**
 - Exhibits Superior Antioxidant Capacity
 - Promotes the Growth of Fibroblast
- **Anti-Inflammation**
 - Inhibits Pro-Inflammatory Cytokines (IL-1 β , IL-6, TNF-R, and NO)
- **Photo-Aging Protection**
 - Inhibits UVB-Induced Cell Death and ROS Generation
 - Inhibits Inflammatory Cytokine Secretions
 - Enhances Type I Procollagen and Collagen Synthesis
 - Inhibits MMPs Expression (Gelatinases, Collagenase) through Inhibition on AP-1 Binding Activity
- **Anti-Pigmentation**

INCI:

Water, Laminaria Japonica Extract, 1,2-Hexanediol, Caprylyl Glycol

Certification:

Halal, ISO 22716

ISO 16128 Standard:

- Natural index=0.975
- Natural origin index=0.975

Regulatory Status:

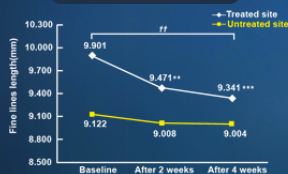
Global Compliant, China Listed

Inspiration for Your Next Brand and Formulation !

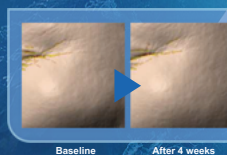
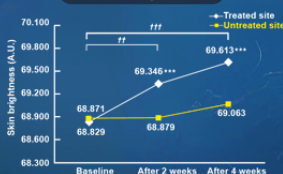
Ocean Re-New® (powered by FucoSkin®) is an integral component of 'Blue Beauty' product line developed by Hi-Q, providing environmentally responsible personal skincare products that are ocean-friendly.

Blue Light Care Serum Powered with 3% FucoSkin®

Periorbital Wrinkle



Skin Brightness



Number of volunteers: 24 (average age 52.75 ± 4.84 years old, female), those who use electronic devices including mobile phones that emit blue-light for more than 6 hours a day and with periorbital wrinkles correspond to the grade 2 - 6 defined in photo damage score. Used twice a day (morning and night) after cleansing face.



BLUE BEAUTY



OLIFUCO®

OliFuco® Oligo Fucoidan is low molecular fucoidan derived from naturally dried, oceanic brown seaweed as food categories dietary intake health ingredient. It is a standardized freeze dried brown seaweed polysaccharide extract verified by scientific studies and human clinical trials in multi health benefits.

OliFuco® has been extensively studied for its immunomodulatory and anti-inflammatory properties. In particular, a human clinical trial completed in 2023 investigated the effects of this orally administered compound on atopic dermatitis.

ATOPIC DERMATITIS

Atopic dermatitis (AD), commonly known as eczema, is a chronic inflammatory skin condition that often presents with symptoms such as redness, itching, dryness, and scaling of the skin. The immune system plays a significant role in the development of atopic dermatitis. In individuals with this condition, the immune system overreacts to certain triggers, such as allergens or irritants, leading to inflammation and skin barrier dysfunction.

Atopic dermatitis is one of the most common skin disorders worldwide, with prevalence rates varying across different populations and regions. In industrialized countries, such as the United States and Europe, prevalence rates range from 10% to 20% in children and around 1% to 3% in adults. However, these rates may be increasing, particularly in urban areas.

The Efficacy of Oligo Fucoidan in Atopic Dermatitis

Clinically Tested

Double-Blind Randomized, placebo-controlled Clinical Trial
Chang Gung Memorial Hospital Taiwan

Following indices were significantly decreased in Oligo Fucoidan group

- Total SCORAD index
- AD-related serum immunologic markers, such as serum IgE levels, eosinophil percentage, CD8+ T cell number, IFN- γ levels, ESR, and CRP levels
- The frequency of steroid ointment application significantly decreased, and the frequency of oral antihistamine use decreased in the study group, whereas no significant changes were observed in the control group.

n=84

Fucoidan group: n=54, fucoidan + conventional AD therapy;
Placebo group: n=28, cellulose powder + conventional AD therapy

The dosage for body weight over 40 kg was 4.0 g/day, between 20 and 40 kg was 3.0 g/day, < 20 kg was 2.0 g/day, and <10 kg was 1.0 g/day

Full Article:
2024 [International Journal of Food Properties]



More About OliFuco®

- Low Molecular Fucoidan (<1500 Dalton)
- Advanced enzymatic hydrolysis extraction, High bioactivities
- Proven by cells, animal experiments and especially 15+ humans clinical trials
- Winner of the Taipei Biotechnology Award and Nutraingredients Award 2023
- Remove heavy metals and impurities
- Batch by batch inspection, food safety guarantee
- Factory certified with ISO22000 and HACCP
- Halal-Certified

WINNER
NUTRA
INGREDIENTS ASIA
AWARDS 2023
SPECIALTY AWARDS
NUTRITION RESEARCH PROJECT

The information provided in this book is intended for general informational purposes only and is for internal training use only. While we have made every effort to ensure the accuracy and completeness of the contents, we do not guarantee its correctness or reliability. The company reserves the right to make changes, updates, or corrections to the information presented herein without prior notice. Any reliance you place on the information contained in this book is strictly at your own risk. We disclaim any liability for any loss or damage arising directly or indirectly from the use of this book or the information provided herein. Readers are advised to consult with appropriate professionals or experts before making any decisions or taking any actions based on the information contained in this book.

Hi-Q

Hi-Q Marine Biotech International Ltd.

+886-2-27470006 info@fucoidanhiq.com

www.fucoidanhiq.com

Linked in

