

An aerial photograph of ocean waves, showing the intricate patterns of white foam and deep blue water. The image is used as a background for the entire page.

Hi-Q

Marine Biotech Group

OCEAN- INSPIRED SCIENCE

Discover Holistic Wellness & Beauty
from the Sustainable Ocean

Nutraceutical & Cosmetics Ingredients

- **Oligo Fucoidan**
- **Seaweed Extract**
- **Deep Sea Mineral**

and more



Founded in 1998, Hi-Q Marine Biotech began with a pioneering mission in sustainable aquaculture. What started as a commitment to responsible ocean farming has grown into a leading force in marine biotechnology, delivering high-quality functional ingredients to the global health, nutrition, and beauty industries. In 2026, the company officially rebranded as **Hi-Q Marine Biotech Group**, establishing a corporate structure comprising **Hi-Q Healthcare Biotech Co., Ltd.** and **Hi-Q Sustainable Aquaculture Co., Ltd.**, thereby further strengthening its integrated approach to innovation and sustainability.

Hi-Q = High Quality

Hi-Q stands for High Quality — a principle that defines our science, our products, and our long-term vision.

Our ingredient portfolio encompasses a diverse range of marine-derived actives designed for dietary supplements, functional foods, and advanced cosmetic formulations. Every material is developed through stringent scientific processes and responsible marine sourcing, ensuring proven bioactivity and safety. Guided by a deep commitment to sustainability, we transform ocean resources into reliable, high-performance ingredients that brands can trust.

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.

Health

Happiness

Nature

Key Research Areas

- **Adjunct Cancer Therapy**
- **Bi-directional Immunomodulation**
(Atopic Dermatitis, Asthmas)



- **Other Health Care**
- **Management of Chronic Disease**
(Liver/Heart/Kidney/Diabetes/etc)
- **Sport Health**



- **Pet Nutrition and Healthcare**



- **Skincare & Haircare**



Technology

Global Leadership Rooted in Oligo Fucoidan Science

— Crafted from Sustainably Harvested Seaweed

Hi-Q specializes in the research and development of Low Molecular Weight Fucoidan (Oligo Fucoidan). We utilize advanced technology to extract Oligo Fucoidan from marine brown seaweed, resulting in a low-molecular-weight Fucoidan with exceptional bioactivity. Hi-Q has strong Research & Development collaboration with professionals in biology, food science, and healthcare to develop high-quality functional ingredients from Taiwan for health and skincare products.

Beyond oligo fucoidan itself, Hi-Q also develops a wide range of fucoidan-derived specialty ingredients and targeted brown-seaweed extracts, each designed to address specific health or cosmetic needs

70+

Scientific
Publications

15+

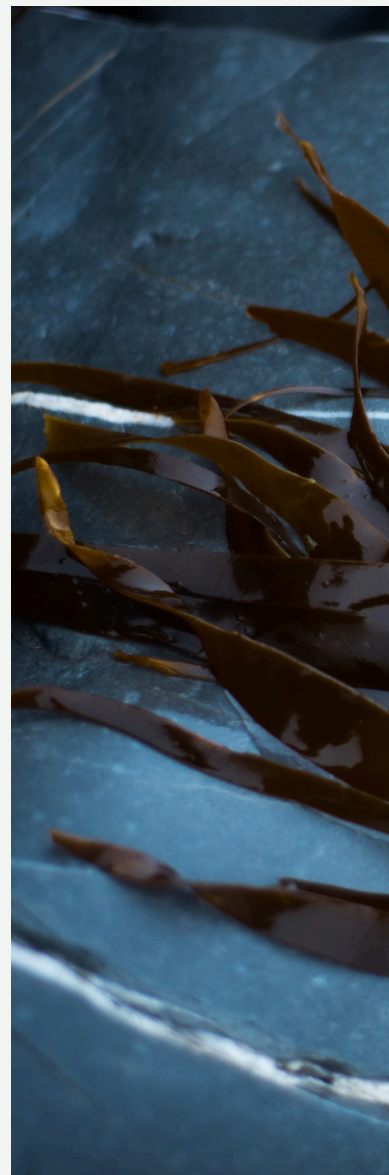
Human
Clinical Trials

20+

Patents

70+

Awards



Extending Seaweed Expertise into Deep Ocean Minerals

— A Pristine Source Uniquely Accessible from Taiwan's Pacific Coast

Hi-Q's marine expertise extends beyond seaweed to the mineral richness of Deep Sea Water, a pristine, nutrient-dense water mass sourced from depths of 600 meters where sunlight cannot penetrate. Through advanced nanofiltration and mineral-refinement technologies, Hi-Q delivers a range of clean, ionic, and highly bioavailable marine minerals ideal for functional foods, beverages, supplements, and beauty formulations.

70+

Minerals & Trace
Elements

1 of 4

Places on Earth

98%

Match in Mineral
Profile with Human
Blood Plasma



Core Ingredients

Seaweed-Derived Active Ingredients

Powered by Hi-Q's Oligo Fucoidan Expertise

Nutraceutical Ingredients

OliFuco® Series

- **OliFuco®**
Adjunct Cancer Therapy & Bi-Directional Immunomodulation p7
- **OliFuco® RE**
Rebuild, Restore, Reinforce, and more (Muscle, Skin, Bone Health etc.) p8

FucoBalan® Series

- **FucoBalan®**
Chronic Disease Management: Diabetes Care, Liver Health, Heart Health and more p9

Cosmetics Ingredients

FucoSkin® Series

- **FucoSkin® | FucoSkin® CS**
Outstanding for Anti-Aging and Photo-Aging Protection p12

FucoHair® Series

- **FucoHair®**
Healthy Scalp Stronger Hair p13

Deep Sea Water-Derived Minerals

Nutraceutical Ingredients

DC-Minerolz™ Series

- **DC-Minerolz™ Concentrate 40K and 90K**
- **DC-Minerolz™ Powder**
Deep Sea Water-Fast-Tract Recovery & Lipid Balance p10

Cosmetics Ingredients

Minermoist™ Series

- **Minermoist™ Concentrate 40K and 90K**
Deep Sea Minerals-Activate Your Actives p14

Nutraceutical Ingredients

Hi-Q's nutraceutical ingredients are developed using advanced marine biotechnology, ensuring high efficacy and safety from the sea to the shelf. Each ingredient is designed for broad formulation versatility and can be incorporated into a wide range of dosage forms, including:

- **Capsules & Tablets**
- **Powders & Sachets**
- **Liquid Shots & Functional Beverages**
- **Gummies & Chewables**
- **Food Fortification Applications (functional snacks, dairy, bakery)**

NUTRACEUTICAL INGREDIENT



Key Benefits



Adjunct Care

Supports conventional cancer treatments by improve patients' quality of life (QoO)



Bi-Directional Immune Modulation

Balances immune activity by upregulating defense while controlling excessive inflammation



Kidney Health

Supports renal function by reducing inflammation and oxidative stress

OliFuco®

Oligo Fucoidan Powder

WINNER
NUTRA
INGREDIENTS ASIA
AWARDS 2023
NUTRITION RESEARCH PROJECT
SPECIALTY AWARDS



OliFuco® offers strong adjunct benefits for cancer care and features proven bi-directional immune modulation, supporting weakened immunity while calming excessive inflammation. Awarded the prestigious NutraIngredients-Asia Award, OliFuco® is widely recognized as a science-driven, high-quality marine ingredient for advanced health and oncology-nutrition applications.

Advanced Adjunct Support for Cancer Care

Double-Blind Randomized, Placebo-Controlled Clinical Trial

Metastatic colorectal cancer (mCRC)

Fucoidan group: n=28, 4 g fucoidan twice daily + chemo-target agents

Placebo group: n=22, 4 g cellulose powder twice daily + chemo-target agents

Improve Disease Control Rate

Primary Endpoint: The DCR (Disease Control Rate), defined as the sum of the CR, PR, and SD rates, was significantly higher (by 23.6%) in the study group than in the control group (92.8% vs. 69.2%; $p = 0.026$).

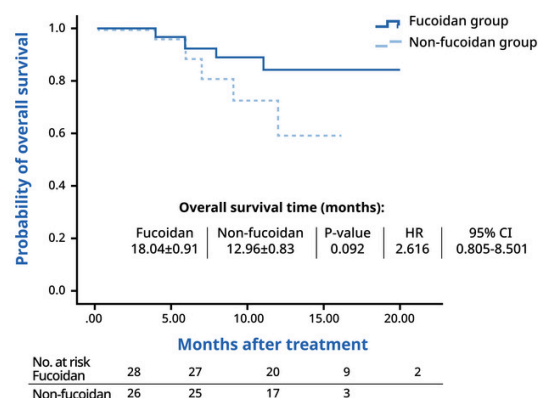
	Total (n=54)	Study Group (n=28)	Control Group (n=26)	p-value
Disease control rate				0.026
Yes (CR+PR+SD) *	44	26 (92.8)	18 (69.2)	
No (PD) *	10	2 (7.2)	8 (30.8)	
Objective response rate				0.284
Yes (CR+PR) *	29	17 (60.7)	12 (46.2)	
No (SD+PD) *	25	11 (39.3)	14 (53.8)	

* CR : complete response; PR: partial response; SD: stable disease;
PD: progressive disease classified using RECIST criteria. Version1.1

Improve Overall Survival

Secondary Outcome (CR and PR rates) was comparable in the study group and the control group (60.7% vs. 46.2%; $p = 0.284$).

Compared with the control group, the study group exhibited a trend of improved Overall Survival Rate (18.04 ± 0.91 vs. 12.96 ± 0.83 months; $p = 0.092$).



Mar Drugs. 2017 Apr 21;15(4):122.



Specification

- **Botanical Origin:** *Saccharina Japonica* (*Laminaria Japonica*)
- **Appearance:** Light brown powder
- **Flavor:** Slight seaweed taste
- **Shelf Life:** 3 years



NUTRACEUTICAL
INGREDIENT



Key Benefits



Supports muscle strength and mass preservation, helping reduce age-related muscle decline



Reduces inflammation and itching for Atopic Dermatitis-prone skin



Prevents bone loss by blocking the formation and activity of cells that break down bone tissue



Specification

- **Botanical Origin:** *Saccharina Japonica* (*Laminaria Japonica*)
- **Appearance:** Light brown powder
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OliFuco® RE

Fucoidan Derived Extract

OliFuco® RE represents the concept of RE which encompasses Rebuild, Relieve, Restore, Renew, Revive, Reinforce, and more. It signifies the broad and transformative potential of this ingredient, addressing various health needs related to tissue regeneration.

A New Frontier in Sarcopenia Management and Tissue Regeneration

Double-Blind Randomized, Placebo-Controlled Clinical Trial

Community-dwelling older adults ≥60 years old

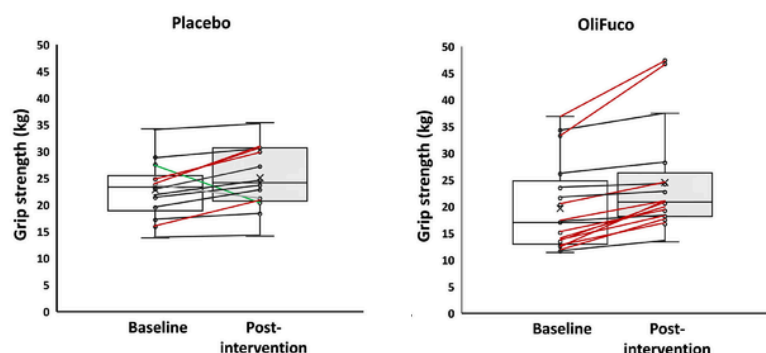
Fucoidan group: n=17, 825mg OliFuco RE + 4,000mg β-cyclodextrin

Placebo group: n=14, 4,825mg β-cyclodextrin

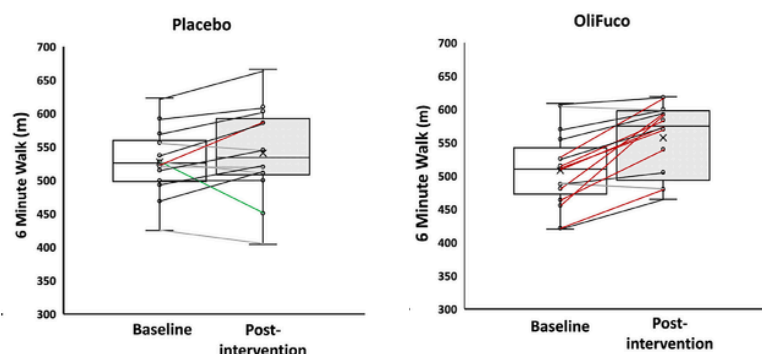
Treatment Period: 6 months

Arch Gerontol Geriatr. 2026 Jan;140:106055.

Improve Grip Strength



Improve 6-Minute Walk Performance



Line colors indicate results relative to the minimal clinically important difference (MCID) threshold:

Red (significant improvement), dark gray (slight improvement), light gray (slight decline), and green (significant decline)



NUTRACEUTICAL INGREDIENT



Key Benefits



Helps regulate glucose metabolism and improve insulin sensitivity for healthier metabolic function



Reduces lipid accumulation to help improve fatty liver conditions



Reduces inflammation and supports better vascular circulation

FucoBalan®

Laminaria Japonica Extract

FucoBalan® combines the benefits of both Oligo Fucoidan Powder and *Laminaria Japonica* Extract to provide a safe & bioactive functional ingredient. Health ingredients with potential modulatory effects on blood glucose, immune function, metabolism, liver, and heart functions.

Holistic Balance for Modern Metabolic Health

Improve Liver Health in Nonalcoholic Fatty Liver Disease Patients

Double-Blind Randomized, Placebo-Controlled Clinical Trial
Nonalcoholic Fatty Liver Disease (NAFLD)

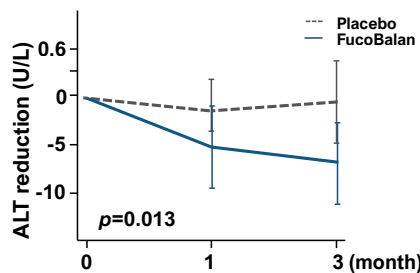
FucoBalan® group: n=21, 3.3 g (275 mg LMF+275 mg HSFx/cap, three caps twice daily)

Placebo group: n=21, 3.3 g cellulose powder

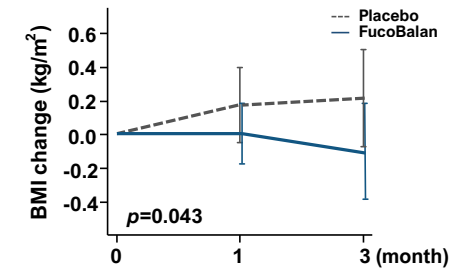
Treatment Period: 3 months

Adv Dig Med. 2019 Apr;6:13125.

Improve Liver Function



Reduce BMI



Double-Blind Randomized, Placebo-Controlled Clinical Trial
Nonalcoholic Fatty Liver Disease (NAFLD)

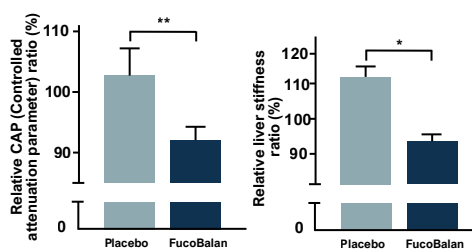
FucoBalan® group: n=21, 3.3 g (275 mg LMF+275 mg HSFx/cap, three caps twice daily)

Placebo group: n=21, 3.3 g cellulose powder

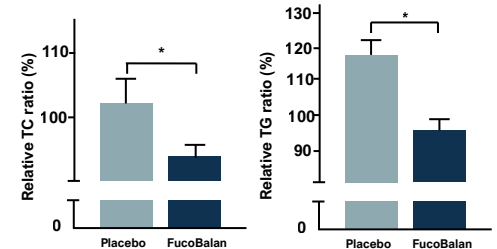
Treatment Period: 6 months

Mar Drugs. 2021 Mar 12;19(3):148.

Reduce Liver Fibrosis



Reduce Total Cholesterol



Data are shown as percentages at 6 months relative to the baseline value. * $p < 0.05$, ** $p < 0.01$ compared with the baseline.



Specification

- **Botanical Origin:** *Saccharina Japonica* (*Laminaria Japonica*)
- **Appearance:** Yellow brown powder
- **Flavor:** Slight seaweed taste
- **Shelf Life:** 3 years



NUTRACEUTICAL INGREDIENT



Key Benefits



Enhance exercise performance & Accelerate recovery from physical fatigue



Reduces blood total cholesterol and LDL-C



Reduces inflammation and supports better vascular circulation



Specification

- **Raw Material Source:** Deep ocean water, >600 m under the Pacific Ocean.
- **Form:** Liquid / Powder
- **Appearance:** Transparent pale yellow liquid / White powder
- **Shelf Life:** 3 years

DC-Minerolz™

Deep Sea Ionic Mineral Complex

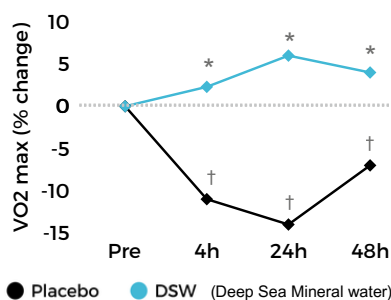
Sourced from over 600 meters beneath Taiwan's pristine eastern coastline, DC-Minerolz™ delivers a new generation of ocean-derived mineral support. This naturally purified deep ocean water mirrors the mineral composition of human blood plasma by up to 98%, offering a superior foundation for cellular hydration, energy balance, and metabolic vitality.

Fast-Track Recovery, Peak Performance

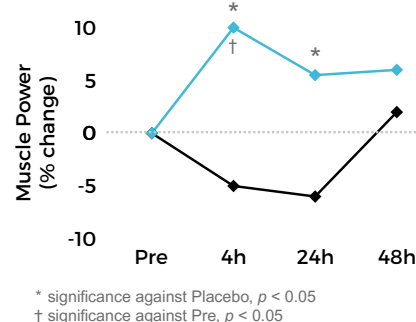
A randomized, double-blind, crossover design was employed, with trials spaced 7 days apart. Healthy male volunteers. N=12, Deep Sea Minerals water (DSW) magnesium (140 mg/L)
Fatigue protocol: treadmill running at 30°C until a 3% loss of body weight.
Test Period: 4 h, 24 h, and 48 h.

J Int Soc Sports Nutr. 2013 Feb 12;10(1):7.

Faster Recovery



Boost Muscle Power



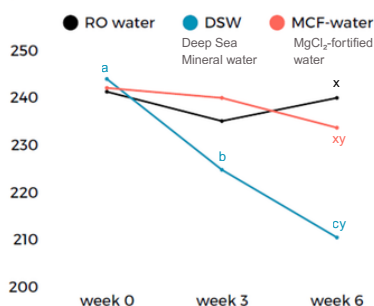
Lipid Balance, Lasting Vitality

Double-blind, randomized, controlled Clinical Trial
Hypercholesterolemic adults

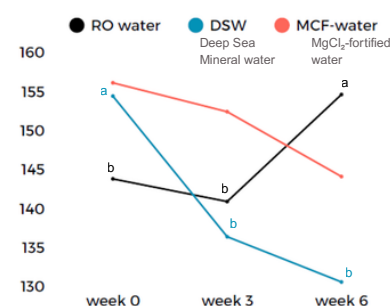
- 1) RO water (control), N=14
 - 2) Deep Sea Mineral water (DSW): Mg: 395 mg/L, hardness 1,410 ppm, N=14
 - 3) Magnesium-chloride fortified (MCF) water (Mg: 386 mg/L, hardness 1,430 ppm), N=14
- Treatment Period: 6 weeks

J Med Food. 2012 Jun;15(6):535-41.

Reduce total cholesterol



Reduce Low-density lipoprotein (LDL) cholesterol



Values are mean±SD, n=14.

abc Values in the same row with different superscripts are significantly different at $p < 0.05$.

xy Values in the same column with different superscripts are significantly different at $p < 0.05$.



Cosmetic Ingredients

Hi-Q's cosmetic actives are developed from sustainably sourced marine materials, supported by scientific research and modern extraction technologies.

These ingredients deliver targeted skin benefits—from anti-aging, photo-protection, soothing, barrier repair, scalp care, to microbiome support.

Hi-Q cosmetic ingredients are suitable for a diverse range of beauty and personal-care formats, including:

- **Essences & Serums**
- **Creams & Lotions**
- **Masks & Ampoules**
- **Cleansers & Toners**
- **Scalp & Hair Care Sprays**
- **Dermocosmetic and Professional Use Formulations**



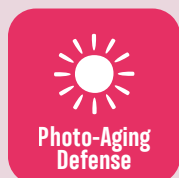
COSMETIC INGREDIENT



Key Benefits



Boosts collagen synthesis, improve firmness, reduce wrinkle



Protects against UV-induced damage and inflammation



Calms redness and irritation by reducing inflammatory signals

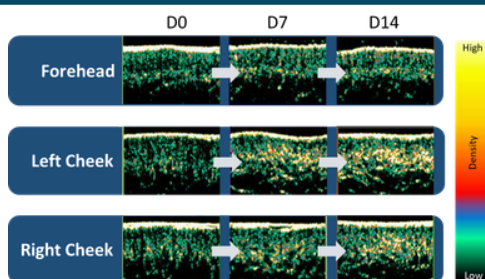
FucoSkin®

Oligo Fucoidan- *Laminaria Japonica* Extract

FucoSkin® is a fucoidan-rich extract from *Laminaria japonica*, clinically shown to improve elasticity, firmness, radiance, and barrier strength. Its low-molecular-weight profile enhances antioxidant defense, collagen synthesis, and protection against photoaging—delivering high-efficacy, sustainable marine skincare innovation.

Outstanding for Anti-Aging & Photo-Aging Protection

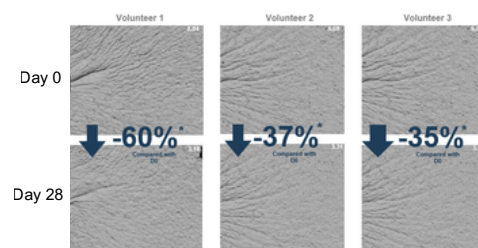
Improve Dermal Collagen Structure



Trial 1 | 7-Day Rapid Repair

25 females (aged 30–60) applied 1% & 3% FucoSkin® daily at night for 7 days.

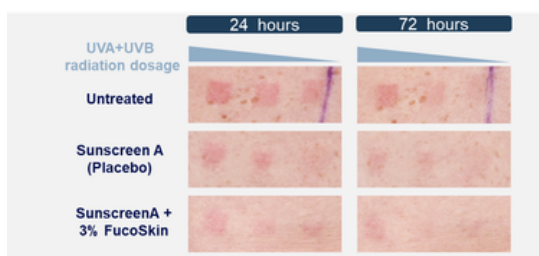
Reduce wrinkles



Trial 2 | 28-Day Deep Renewal

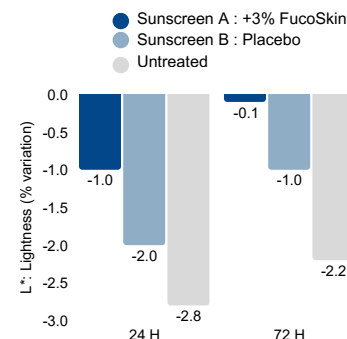
15 females (aged 36–63) applied 3% FucoSkin® daily at night for 28 days.

Empower Sunscreen: Prevents visible darkening



Trial 3 | UV Protection & Soothing

10 healthy adults applied 3% FucoSkin® before UV exposure; significantly reduced redness within 24–72 hours.



*Cosmos & Natrue approved version available



ISO 16128, Global Compliant, China Listed

Specification

- Botanical Origin:** *Saccharina Japonica* (*Laminaria Japonica*)
- Appearance:** Light Brown to Yellowish Brown Liquid
- Odor:** Odorless
- Shelf Life:** 2 years

Scan the QR code to view our inspiring video!



COSMETIC INGREDIENT



Key Benefits



Helps calm irritation and reduce low-grade inflammation



Supports a healthier follicle niche and enhances root resilience



Helps reinforce scalp barrier function

Specification

- Botanical Origin: *Saccharina Japonica* (*Laminaria Japonica*)
- Appearance: Light Brown to Yellowish Brown Liquid
- Odor: Odorless
- Shelf Life: 2 years

FucoHair™

Postbiotic +Fucoidan Ferment Filtrate +Herbal

FucoHair™ combines a marine postbiotic ferment—made by fermenting fucoidan-rich seaweed with marine probiotics—with two Traditional Chinese Medicine herbs known for supporting blood nourishment and hormonal balance. Together, they help create a healthier scalp environment, stabilize the hair growth cycle, and promote stronger, fuller-looking hair.

Healthy Scalp Stronger Hair

Where Ocean Science Meets Herbal Wisdom



Salvia Miltiorrhiza (DanShen)

- Boost microcirculation and enhance root detox



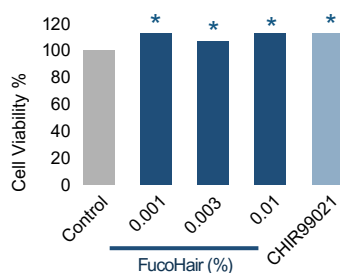
Angelica Sinensis (DangGui)

- Improve hormonal harmony and follicle renewal

Cell Model: Human Follicle Dermal Papilla Cells (HFDPC)
Human hair papilla cells regulate hair cycle & production.

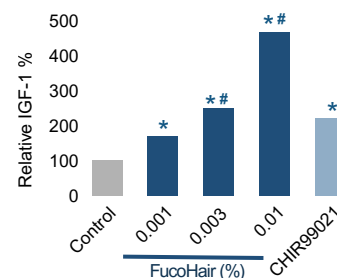
- Minoxidil: Focuses on Blood Flow.
- Finasteride: Focuses on Hormonal Blockade.
- CHIR99021: Focuses on Pathway Activation (Research only).
- FucoHair: Focuses on Targeted IGF-1 Stimulation.

Improve Viability of HFDPC



Positive Control (CHIR99021): GSK-3 β inhibitor; activates Wnt/ β -catenin pathway.

Improve IGF-1 Expression



Target Factor (IGF-1): Stimulates cell proliferation; regulates hair growth cycle.

Data are presented as mean $\pm$ SD. Significant differences are indicated by
* $p < 0.05$ vs. blank control and # $p < 0.05$ vs. 0.00001% CHIR99021



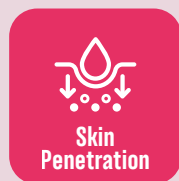
COSMETIC
INGREDIENT



Key Benefits



Amplifies the efficacy and functional activity of key actives



Boost skin penetration for deeper, targeted delivery



Reinforce and elevate long-lasting hydration



Specification

- **Raw Material Source:** Deep ocean water, >600 m under the Pacific Ocean.
- **Form:** Liquid / Powder
- **Appearance:** Transparent pale yellow liquid / White powder
- **Shelf Life:** 3 years

Minermoist™ Series

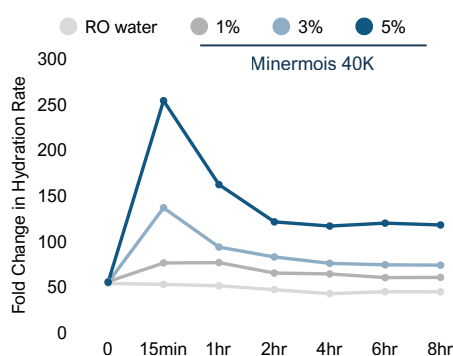
Deep Sea Ionic Mineral Complex

Minermoist™ helps open skin pathways, improving ingredient penetration and enhancing the absorption of other actives. Ideal for upgrading existing cosmetic formulations, Minermoist™ elevates hydration, boosts efficacy, and adds a clean, ocean-derived performance edge to modern skincare.

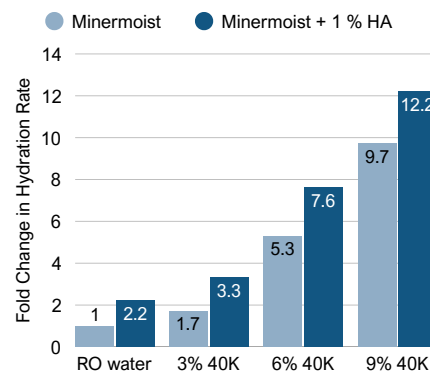
A Smart Upgrade for Your Formulations

*Helps open skin pathways,
enhancing the absorption of other actives*

Deep Hydration, Naturally



Amplifying Hydration Capacity & Hyaluronic Acid (HA) 's Power



From Proven Science to Real-World Performance

Hi-Q's Branded Finished Products

Hi-Q is not only a developer of high-performance marine ingredients—we also use our own proprietary actives to create complete lines of branded finished products. This vertical integration allows us to demonstrate real-world efficacy, ensure consistent quality, and translate scientific innovation directly into consumer benefits.



ONCOFUCO



ONCOFUCO Plus



BalanGluco



HnOverKiller



Fucobiotic X



FucoWell



ImmuArmor



HeartFight



RenoShield



JointFree



Skincare Gel



Cleansing Gel,
Toner & Lotion



Serum



Day & Night
Cream



Sunscreen



Facial Mask

Proven Success in Taiwan, Ready for Global Expansion

Hi-Q

Marine Biotech Group

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