

Marine ingredients

For cosmetic use

*Discover the potential
of the marine resources*

THE GLYCOBIOLOGIST

ALGALINE

MICROZEST



PARFUSALE
enrich your senses

LESSONIA
cosmetics + ingredients

THE GLYCOBIOLOGIST

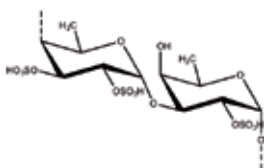
Fucoreverse™



FUCOIDAN AN ANTI-AGEING GLYCONUTRIENT DESIGNED FOR SENSITIVE SKIN

Fucoreverse is designed for anti-ageing products and particularly adapted to sensitive skins. Fucose from which Fuoreverse is made, plays a major role in the skin physiology as it is a constituent of cellular receptors. It allows inflammation's regulation, protection of extracellular matrix and its regeneration. A clinical trial on Fuoreverse, randomized double-blind against placebo, concerning 42 subjects, highlighted a significant decrease of wrinkles' depth.

- **Composition:** Fuoreverse contains fucoidan at a very low molecular weight (2 monomers) from Laminaria seaweed.
- **Activities:** Anti-ageing ; sensitive skin and skin regeneration.
- **Tests:** in vitro & in vivo studies
- **INCI:** Aqua & hydrolyzed F-fucoidan
- **Recommended concentration:** 1.5%
- **Solubility:** water soluble
- **Aspect:** liquid pale yellow



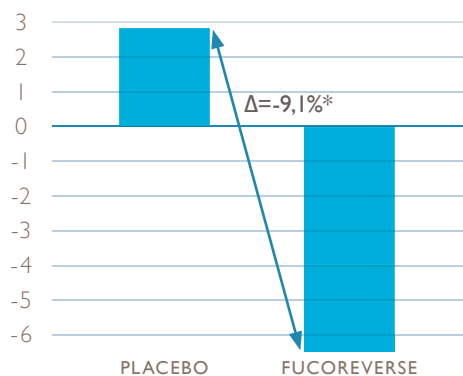
ANTI-AGEING CLINICAL TEST

Used at 1,5%, Fuoreverse decreases significantly the wrinkles depth.

- **9,1% on average** compared with placebo ($p < 0,05$) and **up to -18,9%**.
- **70%** of volunteers from active group observed a reduction in the main wrinkles.

Used at 1,5%, Fuoreverse decreases the irritation on the skin compared with placebo.

FUCOREVERSE DECREASES WRINKLES DEPTH



*Significantly different, $p < 0,05$

Protocol: 42 volunteers aged between 50 to 65 years old. Cream (1,5% Fuoreverse) used twice daily during 28 days.



Iso 16128 for natural and organic cosmetic ingredients

Fucowhite™



AN ORGANIC CERTIFIED WHITENING ACTIVE INGREDIENT

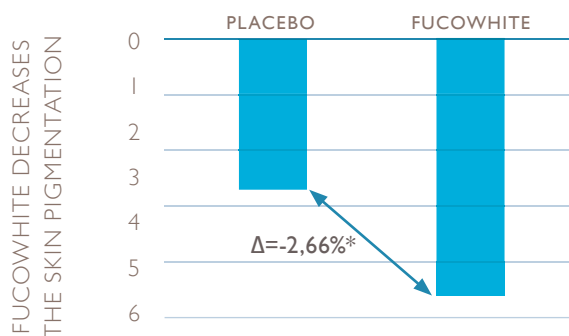
Fucowhite is a unique purified fucoidan-phloroglucinol complex, extracted from the brown algae *Ascophyllum nodosum* by lixiviation in water. Fucowhite is not just an association of fucoidans with phloroglucinols. These 2 compounds are linked together to form a complex which inhibits tyrosinase activity, an essential amino acid involved in the biosynthesis of melanin, responsible for the skin pigmentation.

- **Composition:** a fucoidan-phloroglucinol complex from *Ascophyllum nodosum*
- **Activities:** Whitening and lightening
- **Tests:** in vitro & in vivo
- **INCI:** Glycerin & Water & *Ascophyllum nodosum* extract
- **Recommended concentration:** 2.0%
- **Solubility:** water soluble
- **Aspect:** brownish liquid
- **Preservative free and Organic certified**

WHITENING CLINICAL TEST

After 28 days Fucowhite significantly increases the skin clarity and decreases the skin pigmentation.

- **Used at 2,0%**, Fucowhite decreases significantly the skin pigmentation.
- **2,66% on average** compared with placebo ($p < 0,05$) and **up to 36,5%**.
- **63%** of volunteers from active group observed a decrease of skin pigmentation.



*Significantly different, $p < 0,05$

Protocol: Test realized on Asian skin type on 24 volunteers. Twice daily application of 2% Fucowhite against placebo for 28 days only. Evaluation of skin pigmentation by chromametric analysis. This appliance makes it possible to define a luminance parameter: L, clarity from dark to pale. An ITA parameter defines the degree of pigmentation.



Certified as 25% organic by Ecocert Greenlife according to COSMOS standard available at <http://COSMOS.ecocert.com>

ALGALINE

A RANGE OF TITRATED MARINE INGREDIENTS



SPIRAGELINE (F319)

- INCI: Glycerin & Fucus spiralis extract
- Solubility: water
- Aspect: viscous liquid
- Active compounds: polysaccharides esterified with glycerin
- Cosmetic properties: Second skin effect. The ingredient forms a film on skin's surface. Protects and hydrates. Hair conditioner: protection and reinforcement of hair fibers



ASCOPHYLLINE (F317)

- INCI: Aqua & Ascophyllum nodosum extract
- Solubility: water
- Aspect: brownish liquid
- Active compounds: polyphenols, fucoidans, minerals ...
- Cosmetic properties: antioxydant, anti-ageing



HIMANTHALINE (F318)

- INCI: Aqua & Himanthalia elongata extract
- Solubility: water
- Aspect: limpid liquid
- Active compounds: Dulcitol, peptides, polyphenols, minerals ...
- Cosmetic properties: Osmoregulator, anti-dehydration, moisturizer, hirsute-stress



MARINE SERUM (F52)

- INCI: Maris sal & Aqua
- Solubility: water
- Aspect: incolor liquid
- Active compounds: minerals (Ca, MG, K...)
- Cosmetic properties: remineralization, revitalises skin & hair, soothing effect



PELVETIANE (F122)

- INCI: Aqua & Pelvetia canaliculata extract
- Solubility: water
- Aspect: limpid liquid
- Active compounds: saccharides, minerals ...
- Cosmetic properties: Anti-ageing & antioxidant



SEATRACE (F12)

- INCI: Maris sal
- Solubility: water
- Aspect: powder
- Active compounds: minerals (Ca, MG, K...)
- Cosmetic properties: remineralization, revitalises skin & hair, soothing effect

SEAWEEDS & MARINE PLANTS EXTRACTS



Organic sea Fennel Water (F247)

- INCI: Aqua & Crithmum maritimum extract
- Solubility: water



Fucus Glycerin Extract (F30)

- INCI: Glycerin & Aqua & Fucus vesiculosus extract
- Solubility: water



Laminaria Glycerin Extract (F05)

- INCI: Glycerin & Aqua & Laminaria digitata extract
- Solubility: water



Laminaria Oily Extract (F08)

- INCI: Vitis vinifera seed oil & Laminaria digitata extract & tocopheryl acetate
- Solubility: oil



Lichen Glycerin Extract (F31)

- INCI: Glycerin & Aqua & Chondrus crispus extract
- Solubility: water



Nori Glycerin Extract (F120)

- INCI: Glycerin & Aqua & Porphyra umbilicalis extract
- Solubility: water



Pearl Extract (F59)

- INCI: Glycerin & Aqua & Conchiolin powder & Xanthan gum
- Solubility: water



Spirulina Oily Extract (F93)

- INCI: Vitis vinifera seed oil & Spirulina maxima extract & Tocopheryl acetate
- Solubility: oil



Spirulina Glycerin Extract (F36)

- INCI: Glycerin & Aqua & Spirulina maxima
- Solubility: water



Ulva Glycerin Extract (F32)

- INCI: Glycerin & Aqua & Ulva lactuca extract
- Solubility: water



Wakame Glycerin Extract (F29)

- INCI: Glycerin & Aqua & Undaria pinnatifida extract
- Solubility: water

MICROZEST: POWDERS FOR BODY WRAPS & FACE MASKS



Microzest 50 Ascophyllum (A03)

Microzest 50 Fucus (A06)

Microzest 50 Laminaria (A09)

Microzest 50 Lithothamnium (A16)

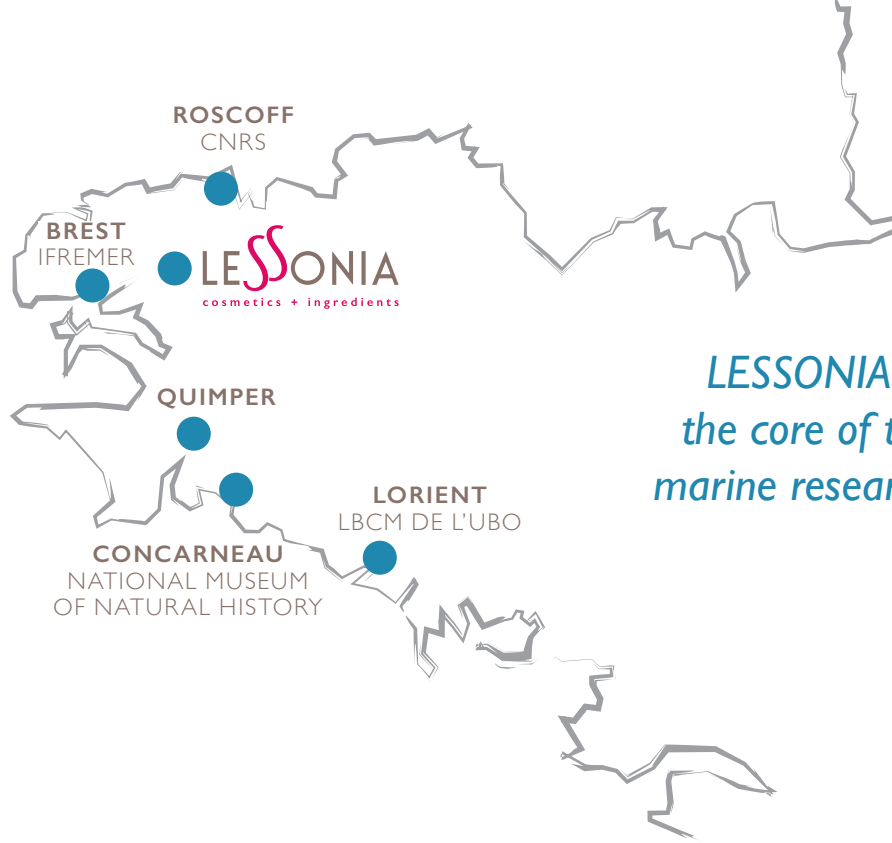
Microzest 50 Marine silt (A24)

Microzest 50 Marine sediment (A48)

Microzest 50 Spirulina (A48)



Iso 16128 for natural and organic cosmetic ingredients



*LESSONIA at
the core of the
marine research*

With many years of experience in the development of cosmetic ingredients and also in algae extracts, LESSONIA, with its headquarters in Brittany is one of the leaders in marine ingredients for cosmetic use. Taking its inspiration from the biodiversity of its environment, LESSONIA develops ranges of natural products from algae.

With 700 species of seaweeds recorded, Brittany is a reserve of natural wealth, that, thanks to the effort of marine companies, can be used to enhance the skin well-being. The development of marine active ingredients offers strong possibilities for innovation. This marine potential, and the businesses which benefit from it, are what makes Brittany the leading French region in marine cosmetics.

Use of new technologies

- Maceration at low temperatures
- Enzymatic hydrolysatation
- Purification of Ultrafiltration

Scientific expertise

- In-vitro tests, in-vivo tests
- Scientific partnerships with academic research
- Clinical tests within various partner laboratories
- Dermocosmetic studies
- Toxicity studies
- Ecocert certification

LESSONIA
cosmetics + ingredients



LESSONIA

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