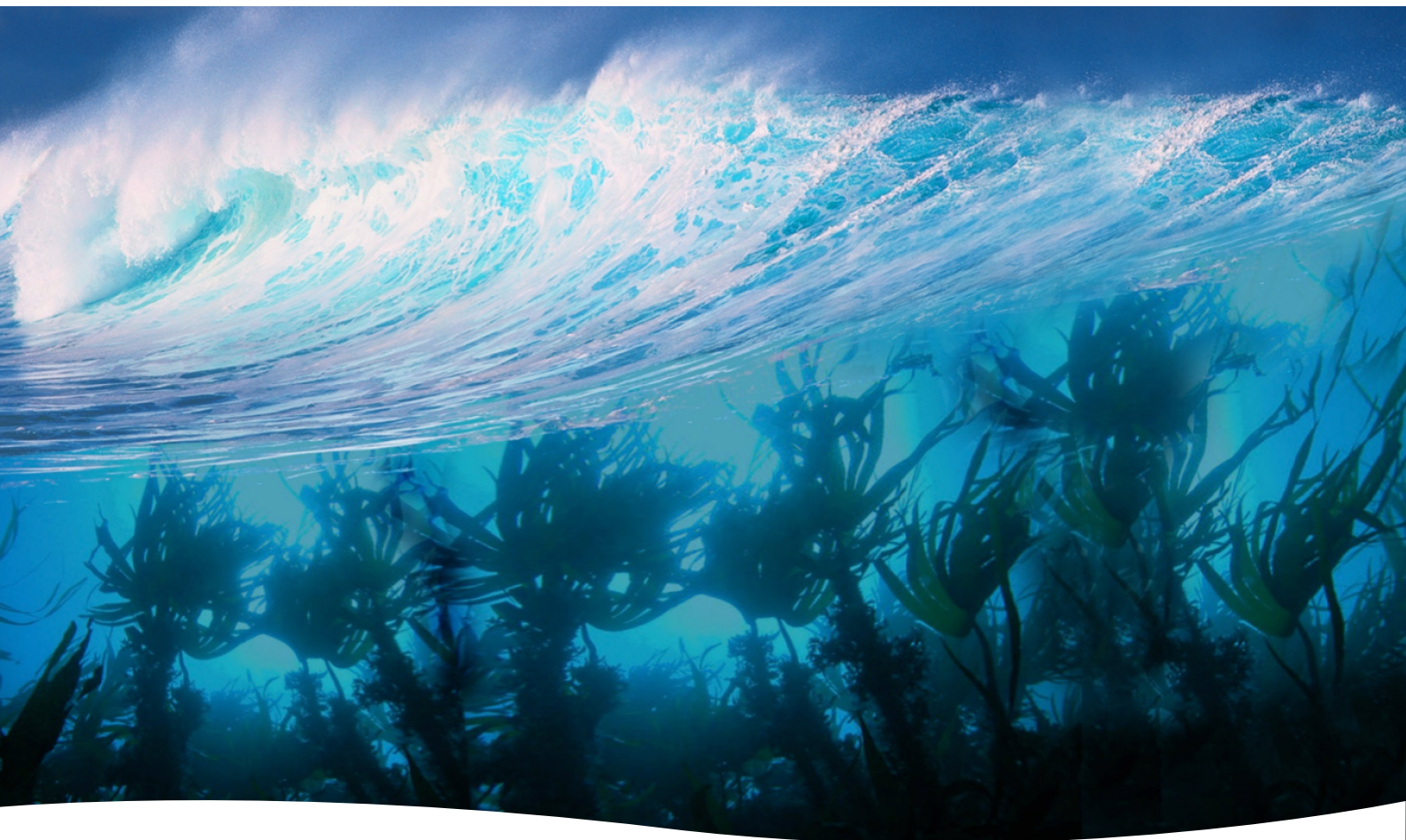


Borealg ^{TG}

The power of youth



INCI : Caprylic/capric triglycerides – Laminaria hyperborea extract

USE RATE : 1-3%

ASPECT: liquid

Certified ECOCERT/COSMOS and China compliant

ACTIVITIES



Stimulation of leptin gene expression in aged skin cells (new marker of aging)



Stimulation of mitochondrial activity and cell viability

COSMETIC BENEFITS



Regeneration



Revitalizing



Rejuvenation



Antimicrobial skin defenses



Distributed in USA exclusively
by Argan Co.

19151 Parthenia St. #E
Northridge, CA 91324
Tel: 818-709-7070
www.arganco.com

BOREALG TG

Borealg TG is an enriched fraction of phyco-carotenoids and phycolipids, extracted from the leathery kelp of *Laminaria Hyperborea*. It is used as an anti-aging marine ingredient, targeting both skin and hair, through its activity on a new aging marker, the Leptin.

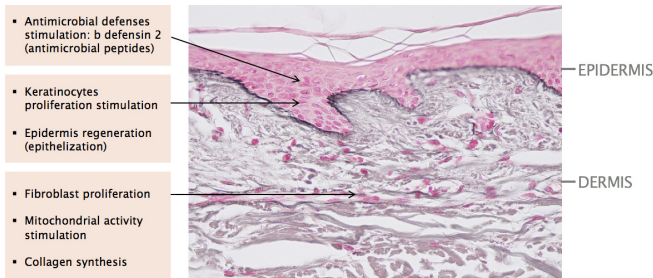
Laminaria Hyperborea is an alga that endures extreme weather conditions during winter in Brittany. It has the capacity to deceive the violence of the waves by enhancing a prompt healing and regeneration of its injured tissue. As a consequence, it is part of the long-lived perennial species with a lifespan of 10 to 20 years whereas other *Laminaria* species have a typical lifespan of about 3 years.



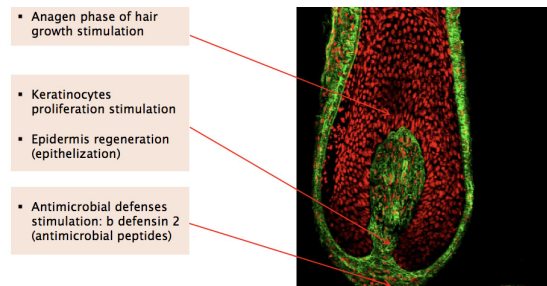
BOREALG STIMULATION ON LEPTIN GENE EXPRESSION

This leptin presents in epidermis, dermis and hair follicle, is mainly involved in the regeneration, revitalization and rejuvenation of skin and hair. In addition, Leptin is also involved in skin's defense mechanism against microbial agents through the stimulation of the synthesis of anti-microbial compounds called β -Defensin-2.

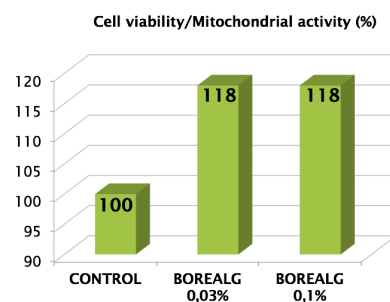
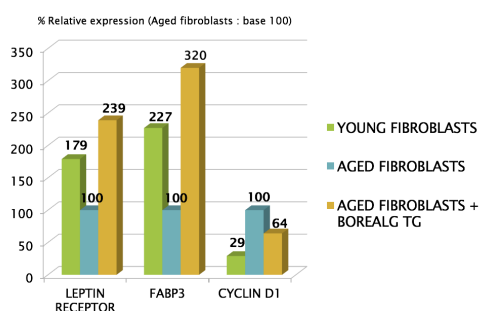
LEPTIN ACTIVITIES IN SKIN



LEPTIN ACTIVITIES IN HAIR



In this context, we demonstrated that Borealg stimulates the expression of some genes involved in skin aging and more especially leptin gene. It also stimulates cell viability and mitochondrial activity.



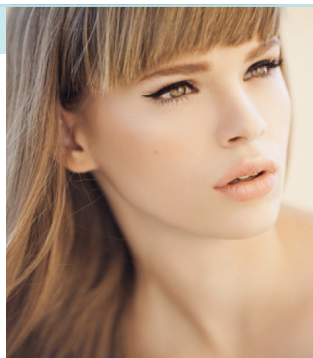
COSMETIC CLAIMS

SKIN

REGENERATES AND REPAIRS SKIN FIBROBLASTS:

- Retards and reverses selected aspects of skin ageing
- Boosts fibroblasts proliferation and collagen synthesis
- Enhances mitochondrial energy as a bioenergetic agent
- Promotes wound healing

UP REGULATES ANTIMICROBIAL SKIN DEFENSES (Induction of β -defensin-2 expression) in anti-pollution or oily skin cares.



HAIR

REGENERATES HAIR AND SCALP:

- Regulates hair follicle cycle
- Stimulates scalp

UP REGULATES ANTIMICROBIAL SKIN DEFENSES (Induction of β -defensin-2 expression) in anti-pollution or oily hair cares.