

BLUE INGENUITY

BY GELYMA

ADVANCED
ACTIVES

WHERE ADVANCED
SKIN SCIENCE MEET
INNOVATIVE PHYCOLOGY

ACTIVES PORTFOLIO

2026



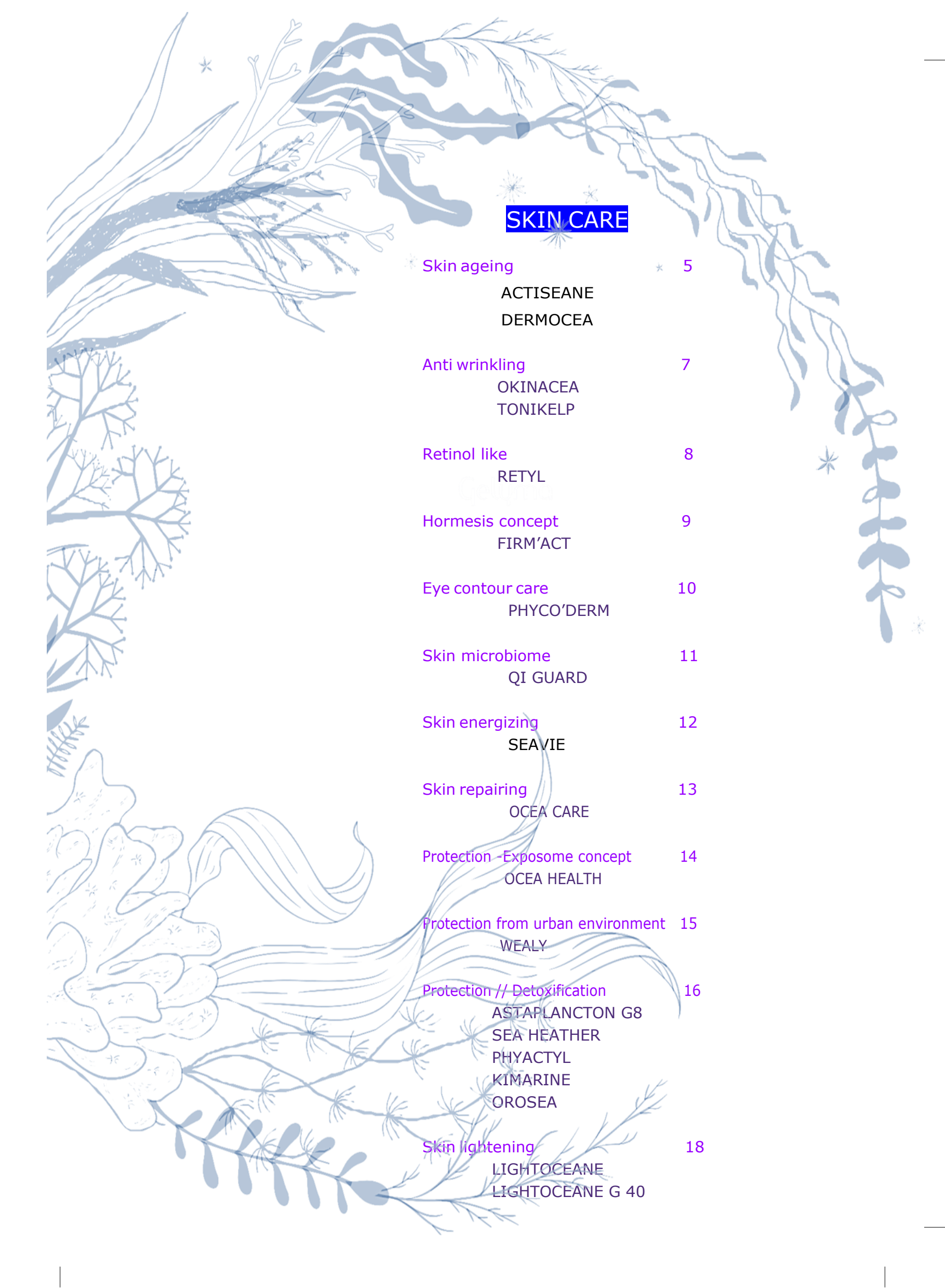
Gelyma

BLUE INGENUITY

ADVANCED ACTIVES FROM INVENTIVE PHYCOLOGY

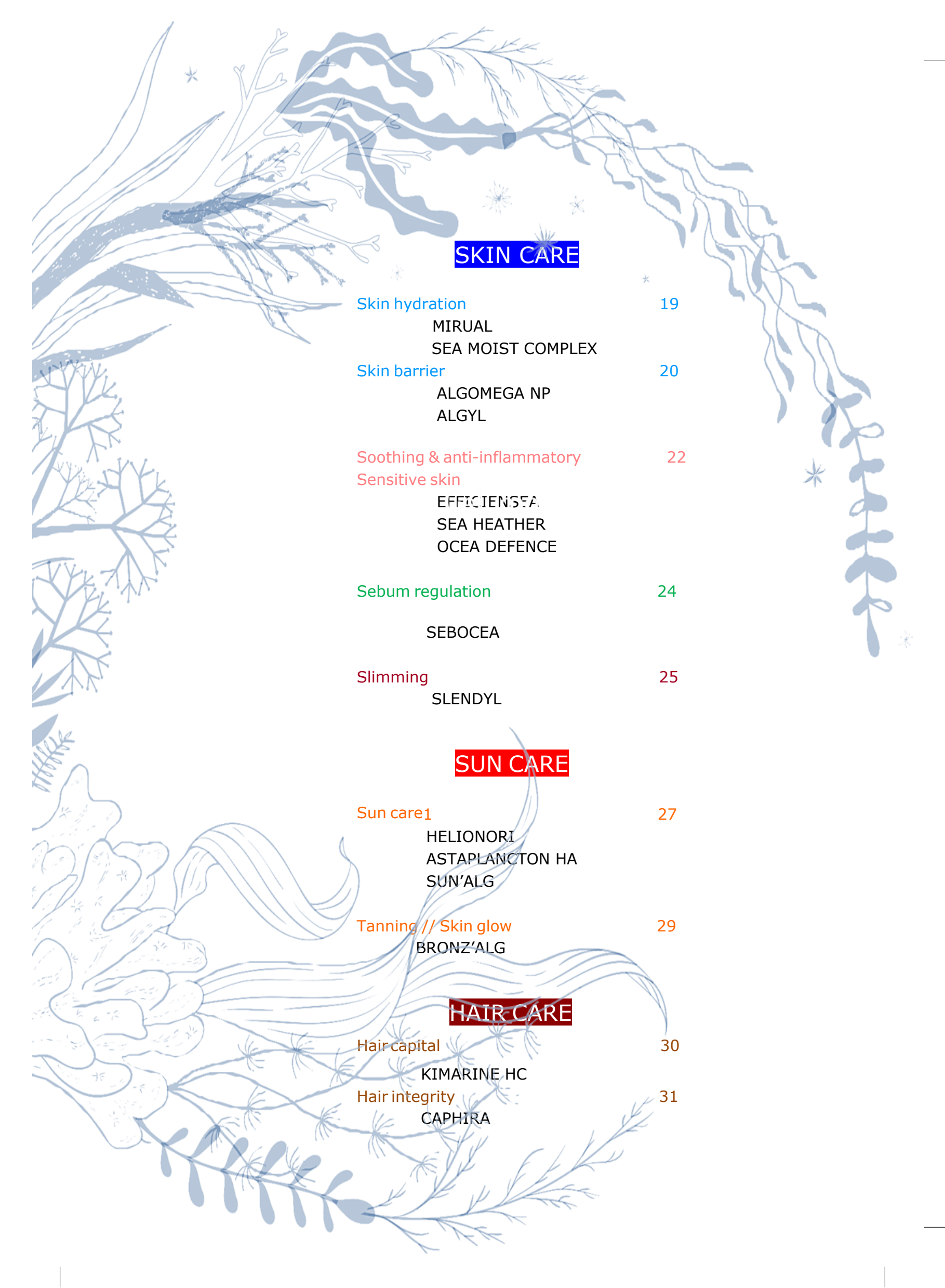
GELYMA SAS is born from the science of algae and the will to advance the development of natural solutions for personal care. Drawing from the algal biodiversity and novel approaches to skin physiology, GELYMA invites you to explore the new maps of beauty where skin cells reconnect to their deeper nature.





SKIN CARE

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SKIN CARE

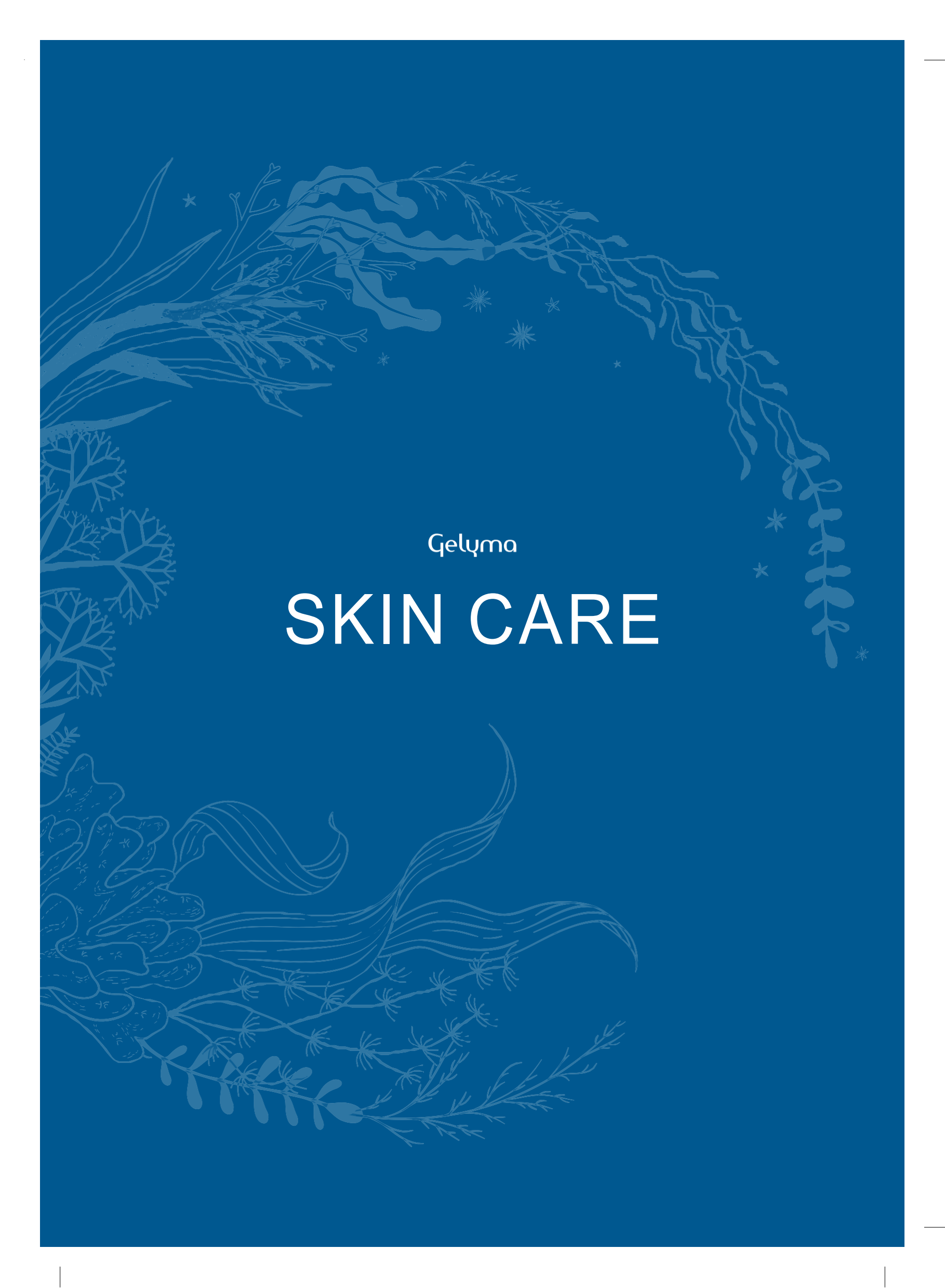
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Geluma

SKIN CARE

SKIN AGEING

TO REINFORCE SKIN METABOLISM AND KEEP VITALITY TO MATURE SKIN

ACTISEANE®

DESCRIPTION

CONCEPT

UNIQUE
SYNERGISTIC
COMBINATION OF
ALGAL GROWTH
SUBSTANCES

MIXTURE OF TWO CALIBRATED EXTRACTS OBTAINED FROM BROWN SEaweEDS SELECTED FOR THEIR RESOURCES IN SEVERAL PLANT GROWTH SUBSTANCES e.g. AUXINS, GIBBERELLINS, CYTOKINES, ABSCISIC ACID AND BETAINES.

PHYTOHORMONES ARE NOT SIMILAR TO FLAVONOID PLANT ESTROGENS.

PRODUCT ID

USE LEVEL: 1% - 4%

INCI NAME: Water
(and) *Ascophyllum
nodosum* extract
(and) *Halopteris
scoparia* extract

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Boosts skin metabolism for epidermal restructuring, dermal reinforcement and increased mitochondrial activity.
- Protects against UVB known to induce the formation of sun burn cells and accelerate premature extrinsic ageing.
- Inhibits elastase, the enzyme which breaks down elastin in the skin.
- Inhibits hyaluronidase, thereby helps reduce skin dryness.
- Modulates cytokine balance:
 - > IL-6 stimulation that strengthens wound healing
 - > IL-1α inhibition that soothes inflammation.

BENEFITS

Ideal ingredient for care products intended for overstretched, tired or mature skin characterized by decreased thickness, dryness and signs of ageing.

COMPLIANCE



TO WARD OFF SKIN AGEING BY RESTRUCTURING THE CUTANEOUS FRAMEWORK

DERMOCEA®

DESCRIPTION

CONCEPT

INNOVATIVE
ASSOCIATION OF
TWO RED ALGAE FOR
A PLUMPER AND
FIRMER SKIN

COMBINATION OF SUCROSE WITH TWO RED SEaweEDS CALIBRATED EXTRACTS FROM MERISTOTHECA DAKARENSIS (: M. SENEGALENSIS) ENDEMIC SPECIES FROM SENEGAL AND JANIA RUBENS FROM THE MEDITERRANEAN SEA.

PRODUCT ID

USE LEVEL: 0.5% - 2%

INCI NAME: Water
(and) sucrose (and)
*Meristotheca
dakarensis* extract
(and) *Jania
rubens* extract.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Acts on both the epidermis and the dermis.
- Restructures the epidermis to reinforce skin integrity:
 - > Increase of keratin K 14 expression.
- Reduces saggy skins by enhancing skin moisture, restoring skin volume and increasing skin firmness, maintaining the hydration of dermal tissues through:
 - > Activation of the synthesis of GAGs, collagens I & III
 - > Inhibition of MMP-1 activity
 - > Inhibition of hyaluronidase activity.

BENEFITS

Innovative marine approach for the prevention and treatment of the major signs of ageing.

COMPLIANCE



SKIN AGEING

TO ENHANCE SKIN INTEGRITY AND FUNCTIONALITY

OKINACEA®

DESCRIPTION

CALIBRATED ACTIVE AGENT OBTAINED FROM GREEN CAVIAR/ SEA GRAPE OBTAINED IN CONTROLLED CULTURE AND ASSOCIATED WITH HYDROLYZED BRAN RICE PROTEINS.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Reinforces the stability of the dermal epidermal junction (DEJ), thereby guarantees efficient functionality and integrity between the epidermis and the dermis.
- Stimulation of Type IV collagen and laminin-5 synthesis.
- Ameliorates skin firmness by reinforcing the dermal structure:
 - > Stimulation of GAGs & Type I collagen synthesis.

CLINICAL TESTS

- Reduces skin roughness and improve skin appearance.

BENEFITS

Specific skin care for mature skin to limit the ageing process.

CONCEPT

THE ANTI- AGEING
POWER BEHIND
GREEN CAVIAR /
SEA GRAPE.
A DELICACY IN
OKINAWA, THE
JAPANESE ISLAND OF
CENTENARIANS

PRODUCT ID

USE LEVEL: 1% - 5%

INCI NAME: Water
(and)
Caulerpa lentillifera
extract (and)
Hydrolyzed Rice Bran
protein.

COMPLIANCE



TO SAVE THE SKIN FROM PREMATURE AGEING

TONIKELP®

DESCRIPTION

ASSOCIATION OF A CALIBRATED EXTRACT PREPARED FROM THE GIANT KELP MACROCYSTIS PYRIFERA WITH AN HYDROLYZED YEAST EXTRACT TO OFFER A RICH COMPOSITION IN ESSENTIAL NUTRIENTS e.g. AMINO ACIDS AND MINERALS.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Saves your skin from premature aging by over-expressing key genes coding for:
 - > Mitochondrial SOD2 => stimulation of detoxification
 - > HAS-2 enzyme => production of hyaluronic acid
 - > GADD 45A => control of DNA repair
 - > FGF 7 => action for epidermal renewal & wound healing
 - > Type III collagen synthesis => maintenance of skin elasticity
 - > Syndecan 4 synthesis => consolidation of ECM adhesion.

CONSUMER EVALUATION

- Backs up skin feeling and healthy younger appearance:
 - > 96% satisfied volunteers for more toned, supple and soft skin,

BENEFITS

Perfect solution to minimize the appearance of skin ageing and improve the skin overall health.

CONCEPT

AGE- DEFYING
STRATEGY

PRODUCT ID

USE LEVEL: 1% - 3%

INCI NAME: Water (and)
Macrocystis pyrifera
extract (and) Hydrolyzed
yeast extract

COMPLIANCE



TO BOOST RETINOL METABOLISM WITHOUT CAUSING ADVERSE EFFECTS SUCH AS IRRITATION, DRYNESS, REDNESS

RETYL®

CONCEPT

A POWERHOUSE OF
OUTSTANDING
ANTI-AGEING
BENEFITS

PRODUCT ID

USE LEVEL: 3%

INCI NAME: Water
(and) *Padina pavonica*
extract
(and) Propanediol

COMPLIANCE



DESCRIPTION

COMBINATION OF A BROWN SEAWEED EXTRACT FROM THE MEDITERRANEAN SEA WITH PROPANEDIOL.

SUBSTANTIATED EFFICACY

The metabolism of vitamin A (retinol) and its active metabolite all-trans-retinoic acid is very complex, asking for maintaining many essential physiological processes.

The epidermis of the skin requires an appropriate supply of retinoic acid to support normal structure and function, with intracellular levels tightly regulated through numerous signalling pathways.

MODE OF ACTION

- Enhances and regulates several steps of retinol metabolism at both levels cytosol and nucleus by stimulating highly significantly:

> Influential enzymes: RDH1G-ALKDH1A3-CYP1A3-CYP1B1

> The major actor CRABP2

> Specific nuclear receptors: RARG-RORA-RORC-RBP2-RARB

to directly influence cell responses to anti-ageing processes.

- Regulates epidermal functionality to reinforce the barrier function and stimulates cell proliferation (+67 %) to support the process of skin cell turnover for a smoother skin.

CLINICAL TESTS CONSUMER EVALUATION

- Minimizes the signs of skin ageing demonstrated in a 60 days trial, one application per day on face at night.

- Exceptional results:

> Skin firmness	+30 %
> Skin elasticity	+11 %
> Dermis density	+51 %
> Reduction of wrinkles depth	- 24 %
> Clearing up of skin tone	+28 %

- Satisfaction rate

> 100% volunteers agreed with a firmer skin and improved tone.

BENEFITS

Beneficial marine active having none structural resemblance to retinoids but acting as a functional analogue of retinol without adverse effects to revitalize and rejuvenate aged skin for a more youthful appearance.

Suitable all skin types.

Stable to UVA/UVB and temperature exposure. Stable in formulation.

SKIN AGEING

TO MODULATE STRESS RESPONSE THROUGH HORMESIS -
BASED PREVENTION AND BOOST THE MATRIX MAINTENANCE
FOR A MORE TONED SKIN

FIRM'ACT®

CONCEPT

INNOVATIVE
WAY TO TARGET
CELL STRESS
RESPONSE FOR
INCREASING
CELLULAR
ADAPTATION
AND SURVIVAL

PRODUCT ID

USE LEVEL: 3% - 5%

INCI NAME: Water
(and)
Himanthalia elongata
extract (and) *Fucus*
vesiculosus extract
(and) *Saccharomyces*
cerevisiae extract

COMPLIANCE



DESCRIPTION

COMPLEX OF TWO BROWN SEAWEEDS CALIBRATED EXTRACTS WITH A SPECIFIC EXTRACT OF *SACCHAROMYCES CEREVISIAE* SUPPLEMENTED WITH SELENIUM IN CULTURE.

HIMANTHALIA ELONGATA PROVIDES MINERALS AND ANTI-OXIDANT PROPERTIES.

FUCUS VESICULOSUS BRINGS POLYPHENOLS AND FUCOIDAN. THEREFORE, IT SUPPORTS ANTI-AGEING EFFECTS AND COMFORTS THE ANTI-OXIDANT PROPERTIES OF HIMANTHALIA.

SUBSTANTIATED EFFICACY

The skin is subject to numerous external and internal changes initiated by various effective signals. All perturbation of its maintenance makes the skin vulnerable leading to age-dependant senescence.

Hormesis is characterized by the beneficial effects resulting from the cellular responses to mild repeated stress that challenges and stimulates the homeodynamic machinery to avoid imbalance.

MODE OF ACTION

- Targets adaptive defensive stress response through hormesis-based prevention to reinforce cell detoxification and protect from harmful environments, thereby maximizes cellular adaptation for a better skin preparation against aggressors damage:
 - > Action on metallothioneins MT1G – MT1H-MT2A known for their unique influence on both the generation of free radicals and the heavy metals detoxification as well as their beneficial role in photoprotection
 - > Action on NQO1 known for its pivotal role in redox state and broader scavenger function.
- Strengthens the dermal structure to boost the extracellular matrix maintenance:
 - > Stimulation of fibroblast proliferation
 - + 188% with 1% active (BrdU testing)
 - > Stimulation Type I collagen synthesis
 - + 125% with 1% active
 - > Stimulation hyaluronic acid synthesis
 - + 47% with 1% active.

CLINICAL TESTS
CONSUMER
EVALUATION

- Increases antioxidant capacity and protects skin against UV-induced.
- Delays facial skin sagging and increases skin firmness & elasticity.

BENEFITS

Effective hormetin-like agent capable to both elicit efficient stress response and improve the dermis maintenance for healthy and younger looking face.

Smart innovative and preventive approach to skin ageing care.

SKIN AGEING

TO TAKE CARE TO THE DELICATE AREA AROUND THE EYES
WITH MULTIPLE WAYS OF ACTION

CONCEPT

WITH CLEVER TRIPLE
ACTION ON FINE
LINES, EYE
PUFFINESS AND
DARK CIRCLES

PRODUCT ID

USE LEVEL: 3% - 5%

INCI NAME: Water
(and) glycerin (and)
Undaria
pinnatifida extract
(and)
Corallina officinalis
extract

COMPLIANCE



PHYCO'DERM®

DESCRIPTION

COMBINATION IN A GLYCERIN EXCIPIENT OF TWO EXTRACTS PREPARED FROM THE BROWN ALGA UNDARIA PINNATIFIDA RICH IN FUCOIDAN AND THE RED ALGA CORALLINA OFFICINALIS RICH IN MINERALS.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Stimulates the major defense systems to increase resistance against stressors by over-expressing genes involved in:
 - > Protection against microbial infections & associated inflammation
 - > Prevention against oxidative stress
 - > Regulation of cellular redox state & reinforcement of detoxification.
- Improves dermis properties to reverse skin ageing:
 - > Up-regulation of genes involved in cell adhesion: ITGB3-SDC1
 - > Up-regulation of genes involved in hyaluronan synthesis: CD44-HAS2
 - > Down-regulation of MMP 1 - MMP 14 - MMP 11 genes.
- > Stimulation of fibroblast proliferation
 - + 393% with 1% active.
- > Stimulation of Type I collagen synthesis
 - + 92% with 1% active.

CLINICAL
TESTS
CONSUMER
EVALUATION

- Attenuates fine lines and wrinkles of crow's feet.
- Minimizes the appearance of dark circles under the eyes to erase the look of fatigue.
- Reduces the volume of under-eye bags to alleviate skin puffiness.

BENEFITS

Powerful marine complex to fight against the visible global fatigue of eye contour. The periocular area looks more refreshed and less fatigued.

Marine agent ideal for a specific skin care day and night to improve the periocular area appearance.

TO ASSIST COMMENSAL MICROBIOTA IN A POSITIVE WAY FOR IMPROVING THE COMFORT OF HEALTHY SKIN

QI GUARD®

CONCEPT

BOOSTER OF THE
BENEFICIAL
COMMENSAL
MICROBIOME
ACTIVITIES

PRODUCT I D

USE LEVEL: 1% - 3%

INCI NAME: Water
(and) *Gigartina
stellata* extract (and)
*Kappaphycus
alvarezii* extract

COMPLIANCE



DESCRIPTION

CONCENTRATED AQUEOUS COMBINATION OF TWO RED SEAWEEDS KNOWN FOR THEIR RICHNESS IN SPECIAL POLYSACCHARIDES.

SUBSTANTIATED EFFICACY

Commensal microbiota plays a crucial role in maintaining human health across various organ systems, particularly in the skin.

Staphylococcus epidermidis is more than "one microbe" living in tight association with keratinocytes. It is regarded as the "microbial guardian of skin health".

MODE OF ACTION

- Performance on the commensal microbiome to favor an integrate management of beneficial microbiome to bolster up skin health overall:
 - >Increases the growth of *Staphylococcus epidermidis* that proves its role as a prebiotic agent
 - >Strengthens the activities of *Staphylococcus epidermidis*:
 - activates the skin immune response to better control the immune defense
 - ameliorates epidermal activities to promote skin barrier function and prevent barrier disfunction.
- Microbiome-friendly labels guarantying the respect of skin microbiome with proven quality for various body regions
Rating: 1.0-2.0 "microbiome-friendly" 2.1-3.0 "microbiome damaging"
 - >Certification with excellent rating for dry (1.4), oily (1.4), moist (1.6) skin, scalp (1.5), intimate (1.2) and feet (1.7) areas.

CLINICAL TESTS CONSUMER EVALUATION

- Decreases the trans epidermal water loss (TEWL) to reinforce the skin barrier condition.
- Improves skin elasticity and strengthens the skin to reduce age-related lack of tonicity and firmness.
- Ameliorates the skin appearance to improve the visible signs of ageing
 - >Decrease of the length, the depth, the amount, the surface area of wrinkles after 28 days application.

BENEFITS

Beneficial marine prebiotic to encourage skin health ageing by

- ⇒ respecting the natural and healthy skin microbiome both on the surface and the deeper layers of the skin
- ⇒ maintaining the microbiome diversity and the growth behavior of different body regions.

Suitable for different cosmetic applications.

CONCEPT

A MARINE
ANSWER TO
REVITALIZE THE
SKIN

PRODUCT ID

USE LEVEL: 0.2% -
2%

INCI NAME: Water
(and) *Fucus*
serratus extract

COMPLIANCE



TO INVIGORATE CELLULAR METABOLISM

SEAVIE®

DESCRIPTION

CALIBRATED ACTIVE INGREDIENT PREPARED FROM THE BROWN SEAWEED *FUCUS SERRATUS* ABUNDANT IN THE NORTH ATLANTIC.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Offers intense nutrition to revitalize and rejuvenate the skin.
- Guaranties cells life expectancy in food starved conditions.
- Reactivates the cellular energetic status:
 - > Stimulates the intracellular ATP synthesis
 - > Maintains proper mitochondrial functioning and good cell metabolism.

BENEFITS

A nourishing and energizing marine agent to keep the skin vital.

CONCEPT

MARINE
ENHANCER OF
SKIN REPAIR

PRODUCT ID

USE LEVEL: 1% - 5%

INCI NAME:
Glycerin (and)
water (and)
Laminaria
saccharina
extract (and)
L- arginine

COMPLIANCE



TO RESTORE SKIN INTEGRITY

OCEA CARE®

DESCRIPTION

ASSOCIATION OF THE BROWN SEAWEED *LAMINARIA SACCHARINA* (: *SACCHARINA LATISSIMA*) AND ARGININE IN A GLYCERIN EXCIPIENT.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Accelerates wound-healing activity to regulate the major phases of skin regeneration:
 - > Increase of the differentiation of fibroblasts into myofibroblasts
 - > Stimulation of remodeling to up-regulate genes coding for several collagens : Types I-III-IV-V collagens
 - > Activation of essential growth factors: PDGF - EGF - IGF1.
- Boosts the proliferation of skin cells to facilitate epithelization and the formation of new tissue.

CLINICAL TESTS

- Favors skin's natural recovery and increases skin hydration.
- Improves superficial skin imperfections and confers pleasant feeling to the skin.

BENEFITS

Efficient strategy to enhance the regenerative capacity of the skin.

SYSTEMIC PROTECTION AND SKIN REGENERATION AGAINST EXPOSOME FACTORS IN COORDINATED RESPONSES TO MAINTAIN AND RESTORE HEALTHY SKIN

OCEA HEALTH®

DESCRIPTION

COMBINATION OF 1,3 PROPANEDIOL (COSMOS GRADE) WITH A CALIBRATED EXTRACT OF THE BROWN ALGA *PADINA PAVONICA* COLLECTED IN THE MEDITERRANEAN SEA.

Exposome factors potentiate skin ageing to trigger molecular processes inducing skin damage, They affect the natural skin barrier and the skin immunity resulting in different skin changes.

Genes and proteins participating in responses against environmental exposures may be considered as a "defensome" allowing an orchestrated defense against exogenous and/or endogenous stressors.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Reinforces epidermal integrity and cell resilience to avoid damage from environmental factors:
 - >Improvement of cornification:
 - * Up-regulation of KRT15, SPPR2A- S100A9-Involucrine
 - * Immunolabelling of SPPR1A acting in keratinocyte differentiation
 - >Improvement of epidermal cohesion and communication by influencing the three main cell junctions (desmosomes, tight junctions, gap junctions):
 - * Up-regulation of DSC1- PPL -CLDN4- CLDN7-GJB4
 - * Immunolabelling of DSG1 playing in cell-cell adhesion.
- Increases the skin's capacity to handle environmental factors:
 - >Response to HSP, oxidative, UV, atmospheric pollution and osmotic stresses with appropriate defense responses.
- Boosts the immune protection:
 - >Modulation of AMPs (SLP1 – DEFB1) and TLRs (TLR1- TLR2).
- Soothes inflammation (ex vivo study):
 - >Inhibition of IL-1alpha.
- Improves wound healing (ex vivo study – transcriptomic study):
 - >Healing response as soon as 4 days after mechanical damage
 - >Regulation of the chemokine balance in all steps of the healing cascade.

CLINICAL TEST CONSUMER EVALUATION

- Ameliorates the status of sensitive skin to increase comfort and skin qualities (vs placebo).

BENEFITS

Unique marine active offering superior and proven efficacy to prevent skin ageing against numerous exposome factors.

CONCEPT

THE FIRST
DEFENSOME
ENHANCER TESTED
ON OVER 3 300
GENES

PRODUCT ID

USE LEVEL: 3%
INCI NAME: Water
(and) *Padina pavonica*
thallus extract (and)
Propanediol

COMPLIANCE



PROTECTION OF BIOLOGICAL AGEING IN URBAN ENVIRONMENTS TO SUPPORT SKIN LONGEVITY

WEALY®

CONCEPT

SKIN BOOSTER OF CELLULAR FUNCTIONS TO REVITALIZE THE SKIN'S APPEARANCE FROM WITHIN IN urban environments

PRODUCT I D

USE LEVEL: 1.5% - 3%

INCI NAME: Water (and) *Kappaphycus alvarezii* extract (and) *Gigartina stellata* extract

COMPLIANCE



DESCRIPTION

AQUEOUS ASSOCIATION OF TWO RED SEAWEEDS KNOWN FOR THEIR RICHNESS IN SPECIAL POLYSACCHARIDES.

SUBSTANTIATED EFFICACY

Biological ageing refers how our skin is functioning, repairing and regenerating to increase skin health and longevity. It reflects the conditions of the skin, especially under oxidative stress and urban environments.

Chronological ageing is related to the passage of time.

MODE OF ACTION

- Stimulation of the anti-oxidant defense and skin detoxification to improve skin resilience under oxidative stress:
 - >Activation of key pathways linked to the anti-oxidant defense and skin detoxification
 - >Stimulation of the heme oxygenase (HO-1) synthesis to induce beneficial cyto-protection
- Protection and repair of skin DNA to support genome integrity and stability:
 - >Reinforcement of major DNA repair pathways
 - >Activation of cell cycle checkpoints mechanisms
 - >Reduction of DNA oxidative damage:
 - Decrease of oxidative DNA lesions level
 - Reduction of carbonylated nuclear proteins level.
- Regulation of proteostasis under oxidative stress to preserve protein quality
 - >Activation of major pathways linked to HSP-UPS and ALP to improve integrity and maintenance
 - >Regulation of HSP 70 level
 - >Enhancement of proteasome 20S activity
- Fighting the damaging effects of protein carbonylation in the epidermis and the dermis to preserve skin health capital

CLINICAL TESTS

Performed on 30 volunteers living in urban environments

- Improves the overall texture of the skin face and reduces superficial skin irregularities
- Reduces wrinkles on the forehead and erases skin imperfections
- Increases the facial radiance by up 28% in just 28 days

BENEFITS

- Enhances the skin's adaptability in urban environments to strengthen the overall looking health

SKIN AGEING

TO PREVENT DAMAGE INDUCED BY REACTIVE OXYGEN (ROS) AND REACTIVE CARBONYL SPECIES (RCS)

ASTAPLANCTON® G8

DESCRIPTION

CONCEPT

ADVANCED
SCAVENGER OF
REACTIVE SPECIES

PRODUCT ID

USE LEVEL: 0.5% - 2%

INCI NAME: Water
(and) *Haematococcus
pluvialis* extract (and)
sea water

COMPLIANCE



AQUEOUS AGENT PREPARED FROM THE GREEN VEGETATIVE CELLS OF THE MICROALGA HAEMATOCOCCUS PLUVIALIS CULTURED IN OPTIMAL NUTRITIONAL CONDITIONS UNDER MODERATE LIGHT INTENSITY, ADEQUATE TEMPERATURE AND PH. IT IS SUPPLEMENTED WITH SEA WATER.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Boosts skin metabolism due to its excellent composition in amino acids and minerals.
- Protects against reactive oxygen species ROS
 - > Scavenging activity.
- Protects DNA against singlet oxygen & hydroxyl radical.
- Captures reactive carbonyl species RCS, known to yield AGEs that cause damage to cellular proteins:
 - > Protection of proteins from oxidation
 - > Preservation of the fine cell structure against RCS induced damage.

Complementary benefits with ASTAPLANCTON® HA prepared from the same microalga *Haematococcus pluvialis* but cultured under inductive high light intensity to induce astaxanthin synthesis.

The microalgae *Haematococcus pluvialis* is a unique "cell factory" that exhibits high metabolic plasticity by re-allocating macromolecules resources in response to variations of its life cycle under nutritional conditions.

ASTAPLANCTON COMPLEX forms an efficient protective duo-system with high performance antioxidant protection to combat accelerated skin extrinsic ageing.

BENEFITS

For clever advantageous dual protection against dangerous reactive molecules such as Reactive Oxygen Species (ROS) and Reactive Carbonyl Species (RCS).

SKIN AGEING

CONCEPT

THE BEST RADICAL
SCAVENGER FROM
THE MEDITERRANEAN
SEA

PRODUCT ID

USE LEVEL: 2% - 10%

INCI NAME: Water
(and) *Cystoseira*
amentacea/
caespitosa/*brachycar*
*pa*extract.

COMPLIANCE



CONCEPT

A DETOXIFYING
AGENT FROM
MARINE ORIGIN

TO
PRODUCT ID

USE LEVELS : 2%- 5%

INCI NAME : Water
(and) *Sargassum*
muticum extract

COMPLIANCE

PREVENT DAMAGE INDUCED BY THE LIPID
PEROXIDATION

SEA HEATHER®

DESCRIPTION

COMPLEX OF SEVERAL TYPICAL BROWN MEDITERRANEAN SEAWEEDS. CAESPITOSE CYSTOSEIRA SPECIES ONLY OCCURS ALONG THE MEDITERRANEAN COASTS WHERE THEY PLAY THE ROLE OF CANOPY ALGAE TAKEN OVER IN COLD TEMPERATE REGIONS BY THE LAMINARIALES. THEY FORM DENSE POPULATIONS GROUPED INTO LARGE BELTS AT WAVE-EXPOSED PLACES ON UNPOLLUTED AREAS.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Combats damage induced by the both pathways of the lipid peroxidation that affects the integrity of cell membranes and alters their fluidity and permeability:
 - > Action on the no enzymatic pathway:
 - * Protection against cellular lysis due to several reactive oxygen species superoxide anion, hydrogen peroxide, alkoxyl radical, singlet oxygen and hydroxyl radical.
 - > Action on the enzymatic pathway:
 - * Anti-inflammation activity on both phospholipase A2 inducing the production of arachidonic acid 5-lipoxygenase leading to the production of leukotrienes.
- Protects DNA against superoxide anion and hydrogen peroxide.
- Guarantees full cell membrane functionality after chemical irritation.

CLINICAL TESTS • Lowers skin reactivity to reduce stinging sensations.

BENEFITS Excellent anti-liperoxide activity recommended to improve the comfort of reactive and sensitive skins.

TO PREVENT DAMAGE INDUCED BY THE MOST
HARMFUL ROS, OZONE AND CHEMICAL STRESS

PHYACTYL®

DESCRIPTION

CONCENTRATED AND STANDARDIZED FRACTION OF THE INVASIVE "ALIEN" BROWN ALGA SARGASSUM MUTICUM COLLECTED IN THE MEDITERRANEAN.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Protects against the most harmful ROS: singlet oxygen, superoxide anion, hydrogen peroxide and hydroxyl radical.
- Protects DNA against singlet oxygen and hydroxyl radical.
- Protects against ozone, a powerful oxidant generating hydroxyl radical and toxic aldehydes.
- Protects against chemical stress due to sodium lauryl sulfate, a strong and harsh surfactant known to promote skin irritations.

BENEFITS Ideal marine active to detoxify and purify the skin, enhancing the resistance of cells against oxidative stress-induced damage.

SKIN AGEING

CONCEPT

PROTECTS THE
SKIN AGAINST
CITY POLLUTION

PRODUCT ID

USE LEVEL: 2 % %

INCI NAME:

water (and)
Undaria
pinnatifida
extract

COMPLIANCE



CONCEPT

SAFEGUARDS THE
SKIN AGAINST
OUTSIDE
AGGRESSIONS

PRODUCT ID

USE LEVEL: 0.5% - 3 %

INCI NAME: Water
(and)
Rissoella verruculosa
extract

COMPLIANCE



TO PREVENT DAMAGE AGAINST CITY POLLUTION

KIMARINE®

DESCRIPTION

LOW MOLECULAR FRACTION PREPARED FROM THE BROWN EDIBLE SEAWEED UNDARIA PINNATIFIDA ALSO KNOWN AS WAKAME, PLAYING A MAJOR ROLE IN ASIAN MARKET FOR FOOD AND MEDICINE.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Offers a well- balanced composition in nutrients to allow efficient regulation and stimulation of deficient cell metabolism.
- Reinforces the natural defense system against everyday damage due to major free radicals e.g. super anion oxide and hydrogen peroxide by two ways:
 - >Penetrating cells to protect them against intracellular free radicals
 - >Intercepting free radicals to act against immediate toxicity.
- Protects UVA- induced damage.
- Counter- regulates the effects of skin against urban pollution:
 - >Protection against cigarette smoke
 - >Protection against exhaust fumes
 - >Protection against heavy metals e.g. cadmium and lead.

BENEFITS

Marine shield to protect the skin against daily skin pollution.

TO PREVENT DAMAGE AGAINST EXTREME ENVIRONMENTAL CONDITIONS THROUGH THE POWER OF A UNIQUE ALGA

OROSEA®

DESCRIPTION

CALIBRATED AGENT BASED ON THE HUGE CAPACITY OF THE RED MEDITERRANEAN ALGA RISSOELLA VERRUCULOSA TO RESIST TO SEVERE ENVIRONMENT WITH HIGH DEGREE OF HABITAT ADAPTATION.

THIS ALGA OFFERS EXCEPTIONAL ECOLOGICAL CHARACTERISTICS: IT IS THERMOPHILOUS, SILICICOLOUS, PHOTOPHILE, REVIVISCENTE, EURYTHERMAL AND EURYHALINE.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Strengthens the skin's defence from outside aggressions acting as an efficacious shield thanks to a unique ecological strategy.
- Protects against extreme environmental conditions: heat - cold - osmotic stresses (in vitro studies- transmission electron microscopic observations).
- Modulates the expression of numerous genes involved in cellular defence: HSP response cellular redox regulation, cell apoptosis prevention, antioxidant protection, inflammation prevention, thereby ensures a better control of stress protein synthesis, increases survival and combats premature skin ageing to keep skin metabolism at a suitable level without additional spending energy.

CLINICAL TESTS

- Provides the skin comfort via moisturizing after unique application for 8h.
- Improves the skin's appearance after two days applications only.

BENEFITS

New approach to energize and protect the skin while to enhance repair against severe climatic stresses.

SKIN AGEING

TO REGULATE THE MAIN PATHWAYS INVOLVED IN SKIN PIGMENTATION

LIGHTOCEANE®

DESCRIPTION

CALIBRATED AGENT PREPARED FROM THE BROWN SEAWEED HALIDRYS SILIQUOSA CONSIDERED AS EUROPEAN ATLANTIC ENDEMIC.

THIS MACROALGA IS KNOWN FOR ITS SPECIAL CHEMICAL COMPOSITION RICH IN OLIGOMERS OF PHLOROGLUCINOL AND SECONDARY METABOLITES AND ITS EFFICIENT BIOLOGICAL PROPERTIES EG. ANTIOXIDANT, ANTIBACTERIAL, ANTIBIOTIC, ANTIPROTOZOAL AND ANTIFOULING PROPERTIES.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Offers clever mechanisms of action against melanogenesis by influencing all main pathways involved in this process:
 - > Action before melanin synthesis
 - Reduction of the production of nitric oxide NO
→ with 1 % active -72 % inhibition with 15 mJ.cm² irradiation.
 - > Action during melanin synthesis
 - Inhibition of tyrosinase & melanin synthesis
→ with 1 % active -93 % inhibition tyrosinase activity (ex-vivo study on human skin explants at day 10).
 - > Action after melanin synthesis
 - Control of melanosome transfer to keratinocytes
→ with 2 % active +98 % increase TRP-1 cells number at day 10 compared to no irradiated control. (ex vivo study on human skin explants at day 10 irradiated).
- Complementary properties:
 - > Protects against free radicals and UVA/UVB radiations.
 - > Protects against inflammation (inhibitions LOX and IL-1α).
 - > Protects against protease deterioration, notably anti-collagenase, anti-elastase and anti-hyaluronidase properties.

BENEFITS Marine attractive multi-targeted strategy to lighten the skin.

CONCEPT

POTENT SKIN
LIGHTENER FROM THE
OCEAN

PRODUCT ID

USE LEVEL: 1%-3%

INCI NAME: Water
(and) *Halidrys*
siliquosa extract

COMPLIANCE



LIGHTOCEANE® G40

DESCRIPTION

LIGHTOCEANE® G40 IS SUPPLEMENTED WITH 40% PLANT ORIGIN GLYCERIN.

PRODUCT ID

INCI NAME:
Glycerin (and) water
(and)
Halidrys siliquosa
extract

COMPLIANCE



HYDRATION

CONCEPT

MARINE
MOISTURIZER & CELL
PROTECTOR

PRODUCT ID

USE LEVEL: 1.5% - 10 %

INCI NAME: Water
(and) *Codium fragile*
extract

COMPLIANCE



CONCEPT

FIGHTS BACK
AGAINST DRY SKIN
TO GUARANTEE
EXCELLENT
HYDRATION

PRODUCT ID

USE LEVEL: 1% - 5%

INCI NAME:
Glycerin (and)
water (and)
Kappaphycus
alvarezii extract
(and) sea water

COMPLIANCE



TO MAINTAIN SKIN HYDRATION WITH A POWERFUL ADDITIONAL ACTION ON THE CELLULAR METABOLISM

MIRUAL®

DESCRIPTION

CALIBRATED AGENT OBTAINED FROM CODIUM FRAGILE, A GREEN MACROALGA USED IN TRADITIONAL ASIAN MEDICINE.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Nourishes the skin and helps to reconstitute the NMF due to a balanced composition in amino acids and minerals.
- Invigorates cell metabolism.
- Adapts its behavior to free radical protection with appropriate responses against free radicals

CLINICAL TESTS • Improves skin hydration.

BENEFITS

Ideal marine solution with dual-action: hydration and protective role for skin youthfulness maintenance.

TO REPLENISH DEPLETED MOISTURE OF DRY SKIN

SEA MOIST COMPLEX®

DESCRIPTION

COMBINATION OF THE RED ALGA KAPPAPHYCUS ALVAREZII FROM PHILIPPINES WITH SEA WATER IN A GLYCERIN EXCIPIENT.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Synergistic action with glycerin to provide the suitable level of moisture:
> Reinforcement of the hydration properties of glycerin.
- Amelioration of the epidermal biosynthetic functions of dry skin.

CLINICAL TESTS • Improves hydration in dry skin.

BENEFITS

Potent moisturizer to maintain the skin hydration state all day long.

BARRIER FUNCTION

CONCEPT

STRENGTHENS
THE SKIN'S
BARRIER
FUNCTION

PRODUCT ID

USE LEVEL: 3% - 5%

INCI NAME:
Silybum
marianum seed oil
(and)
Nannochloropsis
oculata extract (and)
Porphyra
umbilicalis extract

COMPLIANCE



TO IMPROVE SKIN BARRIER FUNCTION

ALGOMEGA NP®

DESCRIPTION

SYNERGISTIC COMBINATION OF LIPOSOLUBLE FRACTIONS EXTRACTED FROM THE GREEN MICROALGA NANNOCHLOROPSIS OCULATA AND THE RED MACROALGA PORPHYRA UMBILICALIS IN A NATURAL BOTANICAL VIRGIN SEED OIL FROM SILYBUM MARIANUM.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Re-equilibrates lipid deficient skin due to its balanced composition in polyunsaturated fatty acids (omega-3 and omega-6). That helps the skin naturally defend itself against dryness.
- Guarantees full cell membrane functionality after barrier function damage to improve the structure of cytomembranes and restores the skin barrier for optimum function (ex vivo studies and observations by transmission electron microscopy).

CLINICAL TESTS

- Decreases skin desquamation and improves the intercellular cohesion that leads to healthy and smoother appearance of skin surface (skin trapping and observations by scanning electron microscopy).
- Reduces TEWL, thereby reinforces the skin barrier function Improves skin hydration and reduces water loss.

BENEFITS

Functional agent able to relieve dryness of sensitive and reactive skins.

TO INCREASE SKIN BARRIER FUNCTIONALITY THROUGH INTELLIGENT MODES OF ACTION

ALGYL®

DESCRIPTION

COMBINATION OF THREE RED SEAWEEDS EXTRACTS IN SYNERGISM WITH GLYCERIN.

SUBSTANTIATED EFFICACY

It exists different but linked and interrelated types of skin barriers:

- The outside-in barrier provides a physical protection mediated by the stratum corneum
- The inside-out barrier supplies tight mechanical cohesion and regulates the loss of fluid through the paracellular permeability function
- The immune barrier and anti-oxidant barrier support the defensive functions to minimize the potential for damage.

MODE OF ACTION

- Reinforces the outside-in barrier to improve the structural basis of the stratum corneum:

> Over-expression of key biomarkers genes involved in:

- * keratinocyte differentiation => ZNF-50 - involucrin - stratifin - filaggrin
- * sphingolipid metabolism => SMPD1 - SPTLC1
- * desquamation kallikreins => KLK7 - KLK5
- * keratinocyte proliferation during epidermis formation => SDC1 - SDC4 - syndecans
- * epidermal recovery after stress/ageing conditions => HBEGF

> Stimulation of involucrin synthesis
(immunolabelling on irradiated skin human explants).

- Strengthens the inside-out barrier: by acting on the two major roles:

> Action on epidermal cell cohesion:

- * up-regulation of desmosomes proteins to improve cell cohesion => JUP - DSP

> Regulation of the paracellular permeability:

- * up-regulation of tight junctions components => CLDN1 - CLDN4 - CLDN7 - OCLN:
- * stimulation of claudin-4 synthesis
(immunolabelling on irradiated skin explants).

- Improves the immune barrier for preventing infiltration of microbes and allergens:

> Over-expression of key biomarkers => elafin - beta-defensin 4A - ribonuclease 7.

- Boosts the antioxidant defense for preventing damage induced by free radicals and aggressors:

> Over-expression of genes linked to antioxidant and detoxification process

> Stimulation of the transcription factor Nrf2 acting in numerous pathways of cellular defense.

CLINICAL TESTS

- Increases skin cohesion and hydration (versus placebo).
- Decreases Trans Epidermal Water Loss (TEWL) (versus placebo).

BENEFITS

Multifunctional barrier activation for strengthening and regenerating skin barrier functions while limiting barrier deterioration from environmental aggressions.

CONCEPT

MARINE
GUARDIAN OF
SKIN
BARRIER
FUNCTIONALITY

PRODUCT ID

USE LEVEL: 1%-4%

INCI NAME: Water
(and) glycerin (and)
Gigartina stellata/
Kappaphycus
alvarezii extract
(and)
Corallina officinalis
extract

COMPLIANCE



SOOTHING & ANTI-INFLAMMATORY

CONCEPT

OFFERS
EFFICIENT
PROTECTION TO
IRRITATED SKIN

PRODUCT ID

USE LEVEL: 1% - 10 %
INCI NAME: Water
(and)
*Pelvetia
canaliculata*
extract

COMPLIANCE



CONCEPT

THE BEST RADICAL
SCAVENGER FROM
THE MEDITERRANEAN SEA

PRODUCT ID

USE LEVEL: 2% - 10 %
INCI NAME: Water
(and) *Cystoseira
amentacea/
caespitosa/brachycar
pa* extract

COMPLIANCE



TO PROTECT AND CALM REACTIVE SKIN (ATLANTIC ALGA)

EFFICIENSEA®

DESCRIPTION

CALIBRATED AGENT OBTAINED FROM THE BROWN ALGA PELVETIA CANALICULATA. THIS SPECIES IS ENDEMIC TO THE EUROPEAN ATLANTIC OCEAN, COMMONLY FOUND IN ABUNDANCE ON THE ROCKY SHORES. IT IS KNOWN AS "A SEAWEED THAT SHUNS THE SUN" OFFERING HIGH RESISTANCE TO STRESS AGAINST DRYING.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Protects DNA against singlet oxygen-induced damage.
- Keeps inflammation under control:
 - > inhibition of IL-1 α, phospholipase A2, 5-lipoxygenase.
- Complementary properties:
 - > protection against UVB and inhibition of elastase.

CLINICAL TESTS

- Reduces skin irritation reactions (stinging sensations)

BENEFITS

Marine active designed to reduce the appearance of irritated skin.

TO PROTECT AND CALM REACTIVE SKIN (MEDITERRANEAN ALGA)

SEA HEATHER®

DESCRIPTION

COMPLEX OF CAESPITOSE BROWN SEAWEEDS ENDEMIC IN THE MEDITERRANEAN

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Combats damage induced by the enzymatic pathway of the lipid peroxidation:
 - > Anti-inflammation activity
 - * phospholipase A2 induces the production of arachidonic acid
 - * 5-lipoxygenase leads to the production of leukotrienes.
- Guarantees full cell membrane functionality after chemical irritation, in addition to its effectiveness against free radicals.

CLINICAL TESTS

- Lowers skin reactivity by reducing stinging sensation.

BENEFITS

Ideal agent associating anti-oxidant and anti-inflammation activities to improve the comfort of reactive and sensitive skins.

SOOTHING & ANTI-INFLAMMATORY

TO IMPROVE THE COMFORT OF VULNERABLE SKIN

OCEA DEFENCE®

CONCEPT

MARINE IMMUNITY
BOOSTER

PRODUCT ID

USE LEVEL: 2%

INCI NAME: Caprylic
capric triglycerides
(and) *Laminaria
ochroleuca* extract
(and) tocopherols

COMPLIANCE



DESCRIPTION

COMPLEX OF AN OILY EXTRACT OF TOCOPHEROLS AND THE BROWN ALGA LAMINARIA
OCHROLEUCA PRESENT IN THE ATLANTIC OCEAN AND THE SOUTH-WEST MEDITERRANEAN.

SUBSTANTIATED EFFICACY

MODE OF ACTION

A new approach to regulate the level of tolerance of sensitive and vulnerable skin, against a variety of chemical and microbiological assaults leading to structural and biological damage that increase with age and can provoke chronic inflammation:

- Reinforces the cutaneous shield:
 - > Boosts the innate immune system:
 - * Over-expression => TLR4 - S 100A7 - RNase 7
 - > Regulates the protective damage mechanisms linked to cellular homeostasis and oxidative stress:
 - * Over-expression => MT1G - MT1H - MT1E - SOD3
- Protects the connective tissue from degradation:
 - * Down-expression => MMP1 - MMP3 - MMP9 - PLAU
- Soothes inflammation :
 - * Down-expression => IL1a - IL6
- Protects against DNA strand breaks from UVA/visible-induced damage (Comet assay):
 - * With 0.1 % active → + 52.8 % DNA protection
 - * With 0.5 % active → + 62.8 % DNA protection.

CLINICAL TESTS

- Reduces UV-induced redness with a short-term efficacy (after only 30 mn UV exposure).

BENEFITS

Suitable solution to stimulate skin immunity while to fight inflammation for improving the comfort of fragile and vulnerable skin. The skin becomes better protected against the risk of infection and irritation.

SEBUM REGULATION

CONCEPT

THE EFFECTIVE
MARINESEBUM
REGULATOR

PRODUCT ID

USE LEVEL: 1% - 3%
INCI NAME: Water
(and)
Fucus spiralis extract
(and) *Tetraselmis chui*
extract

COMPLIANCE



TO TARGET OIL CONTROL

SEBOCEA®

DESCRIPTION

COMBINATION OF TWO EXTRACTS PREPARED FROM THE BROWN MACROALGA FUCUS SPIRALIS AND THE GREEN MICROALGA TETRASELMIS CHUI OBTAINED BY BIOTECHNOLOGY.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Decreases sebum production
 - > Inhibition of 5 α - reductase.
 - *With 1 % active → - 42% dihydrotestosterone level.
- Limits the resulting irritation
 - > Inhibition of IL-8 and TNF- α
 - *With 1 % active → - 54% IL-8 level
 - *With 1 % active → - 70% TNF α level.

CLINICAL TESTS
CONSUMER
EVALUATION

- Decreases the sebum spots number after 28 days application.
 - *Reduction of -71% for forehead
 - *Reduction of -84% for cheek
- Enlightens complexion of oily skin in only 28 days and leaves the skin looking natural and smoother.

BENEFITS

Specific algal solution to improve the comfort of the oily skin.

SLIMMING

CONCEPT

RESHAPES THE
SILHOUETTE &
PREVENTS THE LOSS
OF FIRMNESS

PRODUCT ID

USE LEVEL: 1% - 3%

INCI NAME: Water
(and)
Himanthalia
elongata extract
(and) *Undaria*
pinnatifida extract

COMPLIANCE



TO RESHAPE THE SILHOUETTE AND PREVENT THE LOSS OF
FIRMNESS FOR A PERFECT BODY

SLENDYL®

DESCRIPTION

UNIQUE BLEND OF TWO BROWN ALGAE EXTRACTS PREPARED FROM HIMANTHALIA ELONGATA AND UNDARIA PINNATIFIDA USING A SPECIFIC MINERAL SPRING WATER KNOWN FOR ITS RICHNESS IN CERTAIN MINERAL (CA - MG) AND ITS THERAPEUTIC BENEFITS FOR THE PREVENTION OF OBESITY.

SUBSTANTIATED EFFICACY

MODE OF ACTION

→ Two levels of succès

1- Intercept fat deposits before they start to act on the three main pathways

- Action on adipogenesis (mature adipocyte formation):
 - > Blocks adipocyte differentiation to reduce the capacity to store fats in pre-adipocytes through multiple ways of action:
 - * locks precursors recruitment (action before adipose conversion)
 - * regulates differentiation at different time points
 - * triggers the induction of key transcription factors
 - * controls the transport/oxidation of fatty acids
 - * decreases lipid accumulation during pre-adipocytes maturation.
- Action on lipogenesis:
 - > Regulates lipogenesis to prevent the formation of new adipocytes thus fat storage.
- Action on lipolysis:
 - > Stimulates the lipolysis to promote triglycerides breakdown in adipocytes.
 - * Degradation of phosphodiesterase by - 39% with 1% active
 - 93% with 3 % active .

2- Firms up the skin naturally

- Reinforces the properties of dermis to stimulate Type I collagen synthesis, thereby enhances firmness and gives improved tone:
 - > Stimulates Type I collagen synthesis by +125% with 0.5% active
 - +106% with 1% active.

CLINICAL TESTS &
CONSUMER EVALUATION

- Decreases the shape/morphology of the thighs to refine the silhouette:
 - > Reduction by - 3.7cm² versus placebo

BENEFITS

Innovative marine combination for a multi-targeted slimming activity, to reshape the body and improve body tone.

Gelyma

SUN CARE



SUN CARE

AGAINST UVA INDUCED SKIN ALTERATIONS THANKS TO
THE PRESENCE OF MYCOSPORINE-LIKE AMINO ACIDS

HELIONORI®

DESCRIPTION

WATER AND CONCENTRATED ACTIVE INGREDIENT PREPARED FROM THE RED SEAWEED PORPHYRA UMBILICALIS (L.) KÜTZING KNOWN AS "NORI" IN JAPAN.

THIS ALGA CONTAINS MYCOSPORINE-LIKE AMINO-ACIDS (MAAs), A GROUP OF WATER-SOLUBLE NITROGENOUS COMPOUNDS TYPICALLY ABSORBING BETWEEN 310 NM AND 360 NM ACTING AS NATURAL UV SUNSCREENS. THESE COMPOUNDS ARE NEVER PRESENT IN TERRESTRIAL ENVIRONMENTS, EXCEPT IN FUNGI SPORES. THEY ARE ALWAYS REPORTED IN MARINE ORGANISMS (ANIMALS OR ALGAE) EXPOSED TO INTENSE UV STRESS, THEIR CONCENTRATION BEING CORRELATED TO THE DEPTH AND QUANTITY OF UV.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Provides a safe marine alternative to synthetic UVA filters:
>Agent stable to intense solar light and heat exposure.
- Prevents the formation of sun burn cells.
- Protects cell metabolism against UVA irradiation.
- Protects DNA (Comet assay on human melanocytes).
- Protects cell membranes against UVA.

BENEFITS

Genuine natural bio protector against UVA induced skin alterations to prevent premature photoageing.

TO PROTECT AGAINST UV DAMAGE THANKS TO THE
PRESENCE OF ASTAXANTHIN

ASTAPLANCTON® HA

DESCRIPTION

OILY EXTRACT PREPARED FROM RED, NON-MOTILE RESTING STAGE OF HAEMATOCOCCUS PLUVIALIS CULTURED UNDER INDUCTIVE HIGH LIGHT INTENSITY – SUNLIGHT IN ORDER TO INDUCE THE SYNTHESIS OF THE CAROTENOID ASTAXANTHIN.

ASTAXANTHIN OFFERS POWERFUL ANTIOXIDANT PROPERTIES, 550 TIMES STRONGER THAN VITAMIN E AND 40 TIMES STRONGER THAN B-CAROTENE

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Stimulates the cellular metabolism.
- Shows anti-oxidant protection superior to that of tocopherol.
- Protects against UVA & UVB radiations.

Complementary benefits with ASTAPLANCTON® HA prepared from the same microalga *Haematococcus pluvialis* but cultured under inductive high light intensity to induce astaxanthin synthesis.

ASTAPLANCTON COMPLEX forms a highly potent protective duo- system with high performance antioxidant protection to combat accelerated skin extrinsic ageing.

BENEFITS

Efficient protector against UV damage for delaying skin photoageing

CONCEPT

ACTS AS A GENUINE
UVA BIOPROTECTOR

PRODUCT ID

USE LEVEL: 1% - 4%

INCI NAME: Water
(and)
Porphyra
umbilicalis extract

COMPLIANCE



CONCEPT

ASTAXANTHIN
HELPS FOR POTENT
UVA-UVB
PROTECTION

PRODUCT ID

USE LEVEL: 0.5% - 2%

INCI NAME:
Helianthus annuus
(Sunflower) seedoil
(and) *Haematococcus*
pluvialis extract

COMPLIANCE



AGAINST DAMAGING EFFECTS OF UVA – UVB AND BLUE LIGHT EXPOSURE

SUN'ALG®

DESCRIPTION

INNOVATIVE COMBINATION OF NATURAL BIOACTIVE INGREDIENTS:

PONGAMIA GLABRA SEED OIL (KARANGA SEED OIL, DEODORIZED BIO GRADE) PROVIDING A PRIMARY SHIELD AGAINST UV RADIATIONS, DUE TO ITS IMPORTANT ABSORPTION ABILITY ESPECIALLY FOR UVB BUT ALSO FOR UVA.

TWO MICROALGAL EXTRACTS PREPARED FROM DUNALIELLA SALINA AND HAEMATOCOCCUS PLUVIALIS RICH IN SEVERAL CAROTENOIDS, BRINGING ADDITIONAL PROTECTIVE CAPACITY:

- > DUNALIELLA SALINA EXTRACT IS MAINLY RICH IN β -CAROTENE
- > HAEMATOCOCCUS PLUVIALIS EXTRACT IS CHIEFLY RICH IN ASTAXANTHIN

CONCEPT

HELPS SHIELD YOURSKIN FROM DAILY SOLAR ATTACKS

PRODUCT ID

USE LEVEL: 2 % - 5%

INCI NAME:

Pongamia glabra
seed oil (and)
Dunaliella salina /
Haematococcus
pluvialis extract

COMPLIANCE



SUBSTANTIATED EFFICACY

MODE OF ACTION

- Strengthens the skin's defence mechanisms to up-regulate the expression of key genes involved in:
 - > oxidative stress/detoxification => NOQO1 - AKR1C3
 - > DNA repair => GADD45
 - > skin defense => leukotriene B4 receptor2- β defensin 4A
 - > barrier function => cornifin - TGase-3.
- Offers high protection against both UVA and UVB radiations:
 - > With 2 % active + 56% protection against UVA
 - + 81% protection against UVB
- Prevents the formation of sun burn cells (ex vivo study on skin human explants):
 - > With 5 % active in a basic Carbopol gel, the efficacy is comparable with those of the positive control (commercial cream SPF 50).
- Exceptional protection against blue light exposure:
 - > Reduces the release of ROS generated by blue light
 - > Preserves elastin capital from degradation under blue light exposure to counteract the loss of elasticity (studies on skin explants, immunolabelling versus placebo)
 - > Protects against protein carbonylation induced by blue light to avoid protein deterioration (studies on skin explants, immunolabelling versus placebo)
- Fights against inflammatory skin reactions:
 - > Inhibition of IL-8 (ex vivo study on skin human explants).

CLINICAL TESTS

- Diminishes redness and soothes sunburns (erythema) with a short efficacy (30 min) from application.

BENEFITS

Unique protector for everyday use to help skin to be better adapted to solar aggressions and visible blue light while to limit redness and inflammatory skin reactions.

TO DEVELOP A MORE NATURAL TAN

BRONZ'ALG®

DESCRIPTION

CALIBRATED AQUEOUS EXTRACT OF THE BROWN SEAWEED BIFURCARIA BIFURCATA WITH ACETYL-TYROSINE.

BIFURCARIA BIFURCATA IS A LUSITANIC ALGA THAT CONTAINS PARTICULAR INTERESTING CHEMICALS NOTABLY SEVERAL KINDS OF OLIGOMERS OF PHLOROGLUCINOL. IT OFFERS NUMEROUS PROVED BIOLOGICAL PROPERTIES E.G. ANTIOXIDANT, ANTI-MICROBIAL, ANTI-INFLAMMATORY, ANTITUMORAL ACTIVITIES.

CONCEPT

FOR A SUN-KISSED
& HEALTHY
COMPLEXION ALL
YEAR ROUND

PRODUCT ID

USE LEVEL: 0.5% -
5%

INCI NAME: Water
(and)
Bifurcaria bifurcata
extract (and) acetyl-
tyrosine.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- Regulates the major genes of melanogenesis pathways notably:
=> MITF factor and melanogenic enzymes TYR and TYRP-1, Wnt/catenin, endothelin/protein kinase signaling pathways implicated in melanin formation,
=> all that makes more compelling the pro-pigmenting capability of BRONZ'ALG®.
- Facilitates the melanin synthesis in melanocytes =>action on SLC24A5.
- Improves the interactions melanocytes-keratinocytes =>action on E-cadherin.
- Protects against UVA/UVB-induced damage, therefore ameliorates skin photoprotection.
- Promotes skin pigmentation independent to sun exposure.
=> After 6 days application, stimulation of melanin synthesis by:
+ 30% with 0.5% active
+ 41% with 1 % active

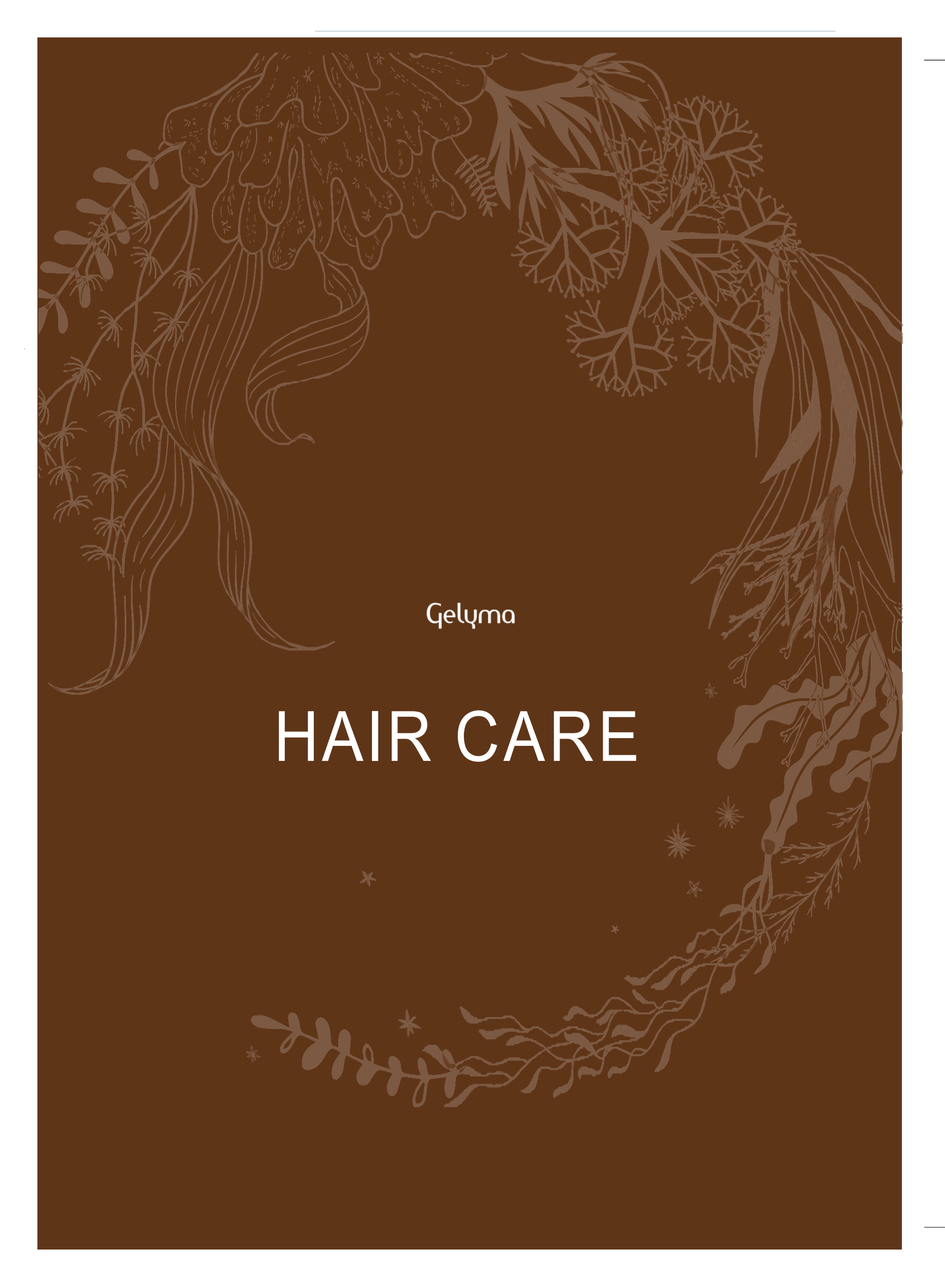
Confirmation by histological staining observations versus melanotan.

CLINICAL TESTS
CONSUMER EVALUATION

- Accelerates tanning.
- Induces healthier look & revives dull skin after 28 days application with a significant improvement in the radiance complexion. Assessment by volunteers and dermatologist
- Guarantees efficient skin protection against free radicals and both UVA and UVB radiations, that helps maintain a harmonious tan and improve the skin's own natural UV protection.

BENEFITS

Smart suntan enhancer from marine origin.



Çelüma

HAIR CARE

TO PRESERVE HAIR CAPITAL AGAINST DAMAGING EFFECTS OF UVA – UVB AND CITY POLLUTION

KIMARINE® HC

DESCRIPTION

LOW MOLECULAR FRACTION PREPARED FROM THE BROWN EDIBLE SEAWEED UNDARIA PINNATIFIDA ALSO KNOWN AS WAKAME, PLAYING A MAJOR ROLE IN ASIAN MARKET FOR FOOD AND MEDICINE.

SUBSTANTIATED EFFICACY

MODE OF ACTION

- ♦ Protection of the follicle and the fiber against UV radiation:
 - > Stimulation of the outer sheath stem cells of the follicle submitted to UV exposure:
 - * Immunolabelling of the biomarker survivin, known to preserve the regenerative potential of the epidermal stem cells.
 - > Protection of the cuticle of the dyed hair fiber submitted to UVA (preventive and curative effect):
 - * Scanning electron microscopic observations.
- ♦ Prevention color fading making hair dull without any brightness:
 - > Study vs placebo on hair tresses submitted to washes and intense UV exposure
- ♦ Protection of the follicle and the fiber against chemical pollutants:
 - > Stimulation of the outer sheath stem cells of the follicle submitted to benzopyrene, the most widespread pollutant found in car exhaust fumes and cigarette smoke
 - * Immunolabelling of the biomarker survivin.
 - > Protection of the cuticle of the dyed hair fiber submitted to exhaust fumes and cigarette smoke (preventive and curative effect)
 - * Scanning electron microscopic observations.

CLINICAL EVALUATION CONSUMER EVALUATION

- ♦ Improves the hair quality with denser and stronger hair, in only 56 days of treatment, once a day application versus placebo.

BENEFITS

Marine shield to regain the hair vitality and resistance, against daily skin pollution, for a youthful and healthier appearance.

CONCEPT

POWERFUL MARINE STRATEGY TO REINFORCE THE HAIR CAPITAL ASSOCIATED WITH FOLLICLE STEM CELLS STIMULATION

PRODUCT ID

USE LEVEL: 2%
INCI NAME: Water (and) *Undaria pinnatifida* extract

COMPLIANCE



TO CONSOLIDATE THE HAIR'S INTEGRITY

CAPHIRA®

DESCRIPTION

CONCEPT

GLOBAL NATURAL
PROTECTOR OF THE
HAIR FOLLICLE,
FIBER AND SCALP

ASSOCIATION OF THE RED MACROALGA KAPPAPHYCUS ALVAREZII FROM PHILIPPINES WITH SEA WATER IN A GLYCERIN EXCIPIENT.

PRODUCT ID

USE LEVEL: 2%

INCI NAME:
Glycerin (and)
water (and)
*Kappaphycus
alvarezii* extract
(and) sea water

COMPLIANCE



SUBSTANTIATED EFFICACY

MODE OF ACTION

- Action on the hair follicle:
 - > Prevents hair loss:
 - * Increases hair follicle survival to slow down apoptosis after only 20 days treatment at 2%.
 - * Stimulates the ferritin pathway known to be linked to alopecia in women presenting iron deficiency:
 - over-expression of gene ferritin + 503%.
 - > Boosts follicle metabolism:
 - * Modulates the gene expression of growth factors known to be related to alopecia
 - over-expression of IGF1R +146% - EGFR +172%
 - over-expression of FGFR2 +172% (linked to Asian hair thickness)
- Action on the hair fiber:
 - > Reinforces the hair fiber:
 - * Stimulates keratins synthesis to provide resistance and built stronger hair
 - over-expression of KRT85 +132% - KRT36 +130% - KRT75 +129%
 - > Protects the hair cuticle against damage due to dryness (scanning electron microscopic observations):
 - * Protection of the dry hair cuticle
 - * Protection of the dry hair cuticle after chlorine treatment.

CLINICAL TESTS

- Restores and enhances the hair shine to improve healthy appearance.
- Action on the hair scalp:
 - > Improves the scalp health with soothing effect against erythema and irritation.

BENEFITS

Suitable for a wide variety of hair care concepts for stronger and healthier looking hair and scalp.



OUR ALGAL WORLD

GELYMA sustainably sources Algae from all over the world, taking the utmost care in the purity and quality of their composition.

Macro algae

ATLANTIC OCEAN (EUROPE)

Ascophyllum nodosum
Bifurcaria bifurcata
Corallina officinalis
Enteromorpha compressa
Fucus serratus
Fucus vesiculosus
Gelidium sesquipedale
Gigartina stellata
(*Mastocarpus stellatus*)
Halidrys siliquosa
Halopteris scoparia
(*Stypocaulon scoparium*)
Himanthalia elongata
Laminaria ochroleuca
Laminaria saccharina
(*Saccharina latissima*)
Lithothamnium calcareum
Palmaria palmata
Porphyra umbilicalis
Undaria pinnatifida

ATLANTIC OCEAN (AFRICA)

Meristotheca daakarensis
(*Meristotheca senegalensis*)

MEDITERRANEAN

Jania rubens
Padina pavonica
Cystoseira amentacea
Cystoseira caespitosa
Rissoella verruculosa
Codium fragile
Padina pavonica
Sargassum muticum

SOUTH PACIFIC OCEAN

Lessonia nigrescens
Macrocystis pyrifera
Durvillaea antarctica

INDIAN OCEAN

Kappaphycus alvarezii
Undaria pinnatifida

CULTIVATION

Caulerpa lentillifera
Kappaphycus alvarezii
Undaria pinnatifida

Micro algae

CULTIVATION

- *Dunaliella salina*
- *Haematococcus pluvialis*
- *Nannochloropsis oculata*
- *Tetraselmis chui*

Gelyma

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