

bettech





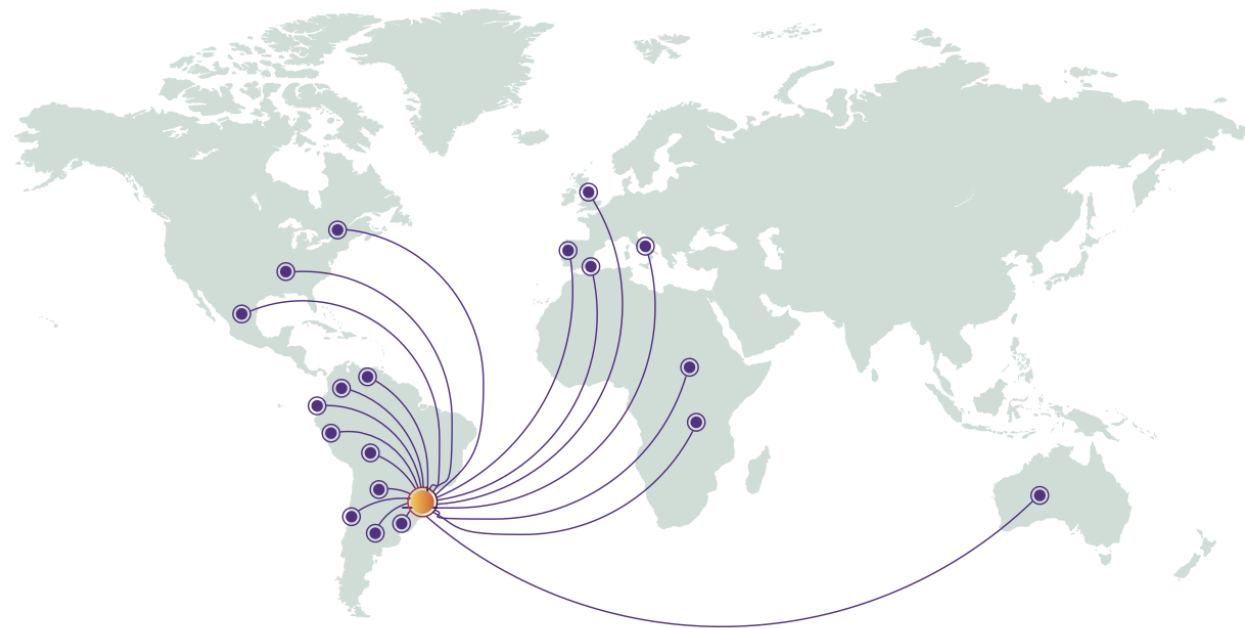
Bettech is part of InBetta, a holding company that uses creativity to make your life easier. Currently, its more than 5,000 products are a benchmark in the market, bringing together other companies such as Bettanin, Atlas, Sanremo, Ordene, Lanossi, Super Pro and LOTS Home Shop.

* **BETTANIN**

* **ATLAS**

* **SANREMO**

* **ORDENE**



SuperPro
* **BETTANIN**

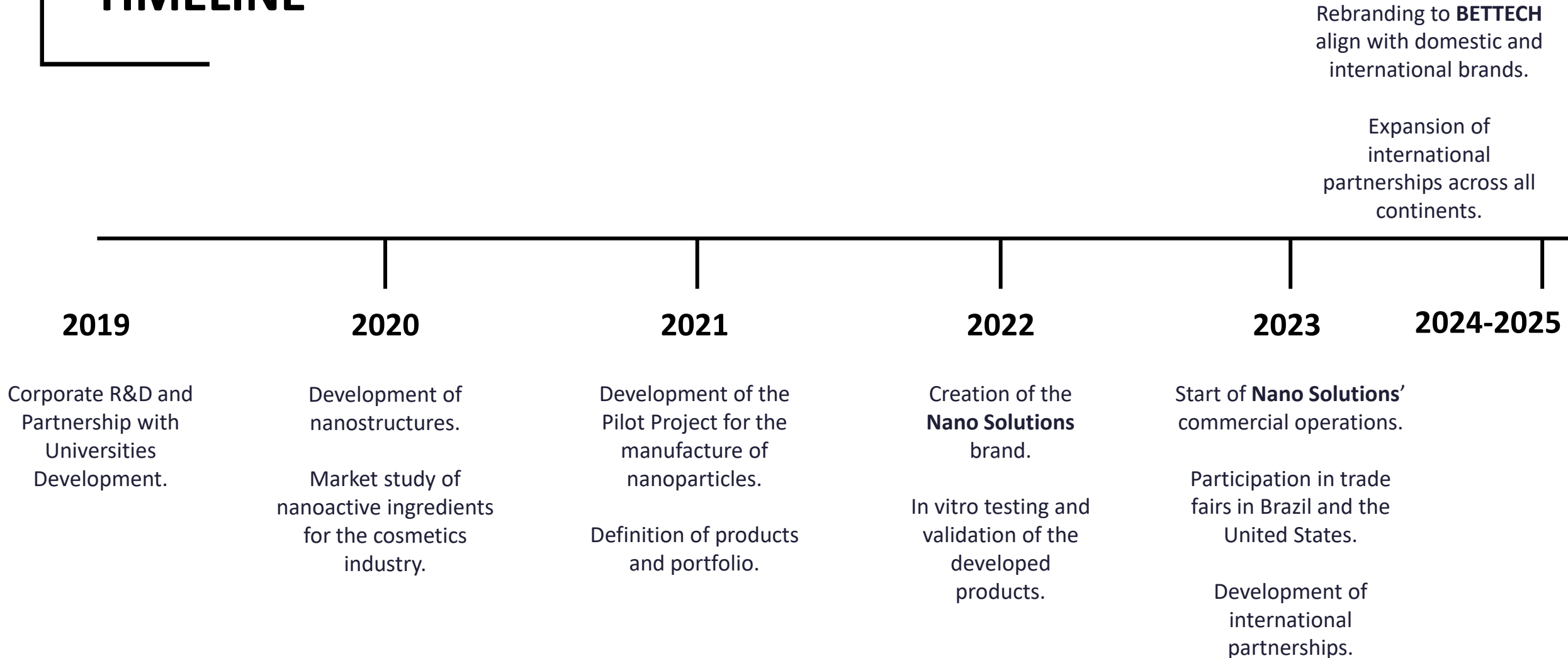
LANOSSI
beauty & care

bettech

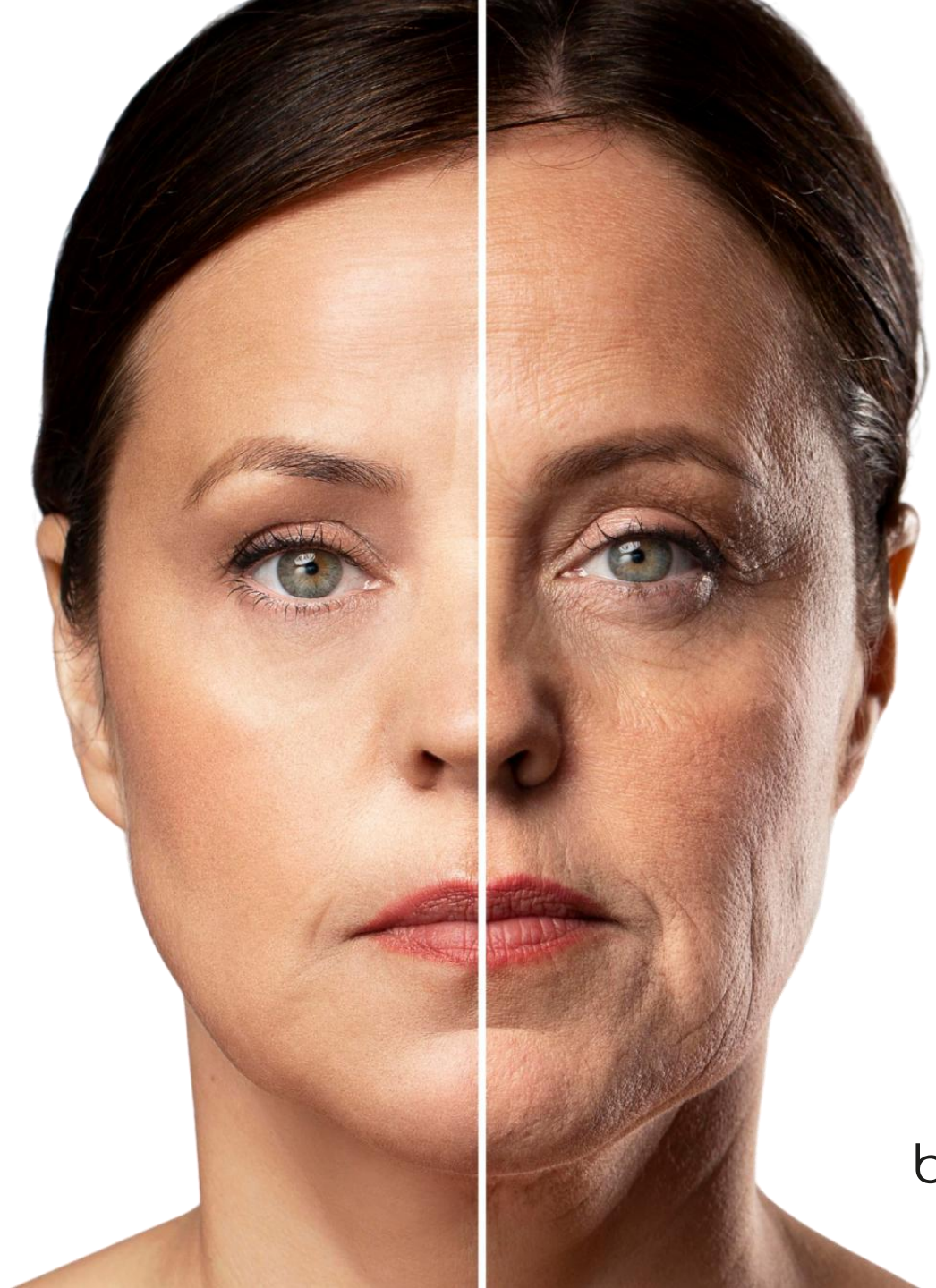
L+OTS
HOME SHOP



TIMELINE



EFFECTIVENESS?

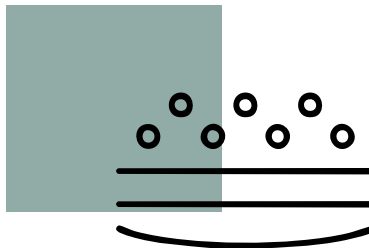


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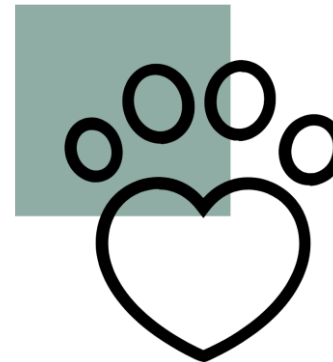
OUR TECHNOLOGIES



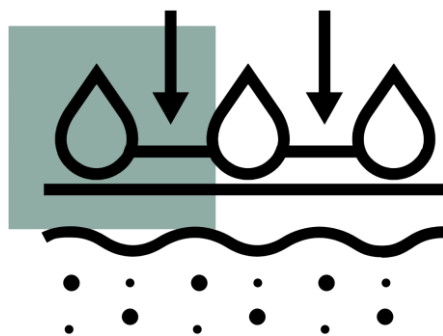
ACTIVE INGREDIENT
PROTECTION



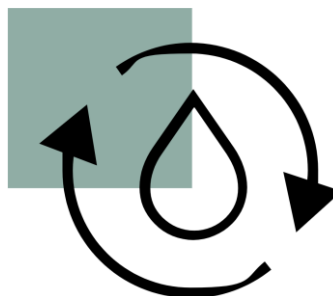
GREATER SURFACE
COVERAGE



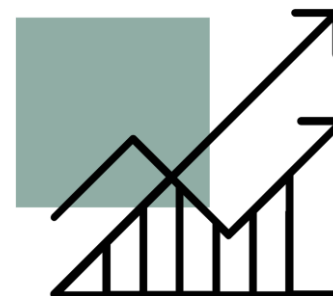
CRUELTY FREE



PERMEATION



CONTROLLED RELEASE



MAXIMIZATION OF
INGREDIENT EFFECT

PROTECTION



Active ingredients oxidise easily upon contact with oxygen, losing efficacy and altering the product's colour.



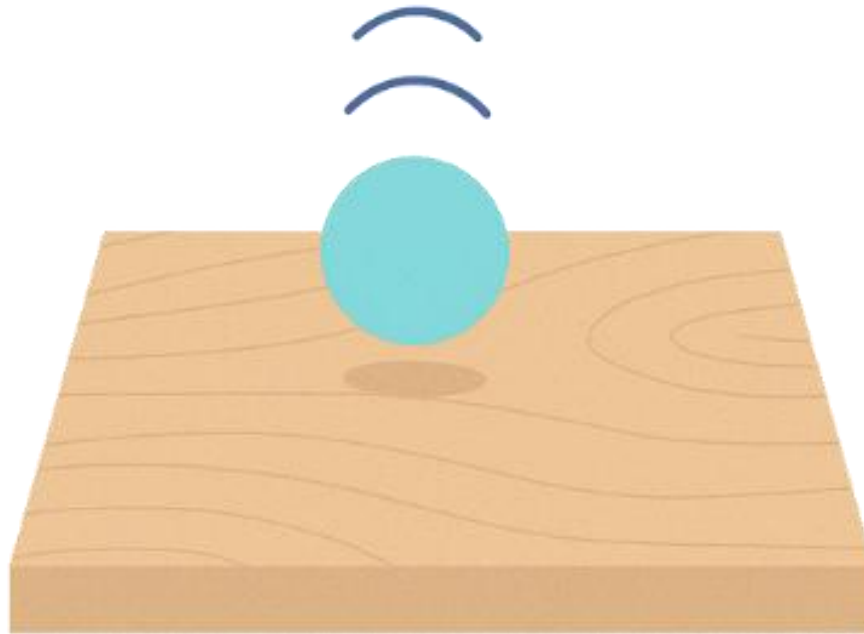
They can also react with each other within the formulation, compromising stability.



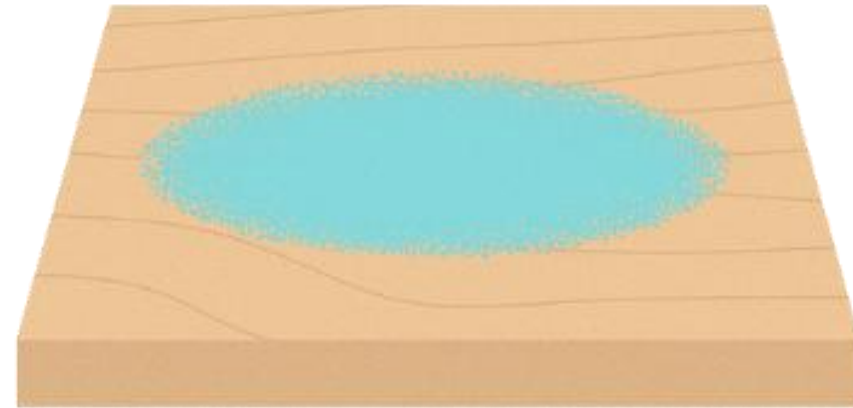
Encapsulation protects the active ingredient, preserving its benefits and preventing undesired interactions.



MOLECULE *versus* PARTICLES – Surface Coverage



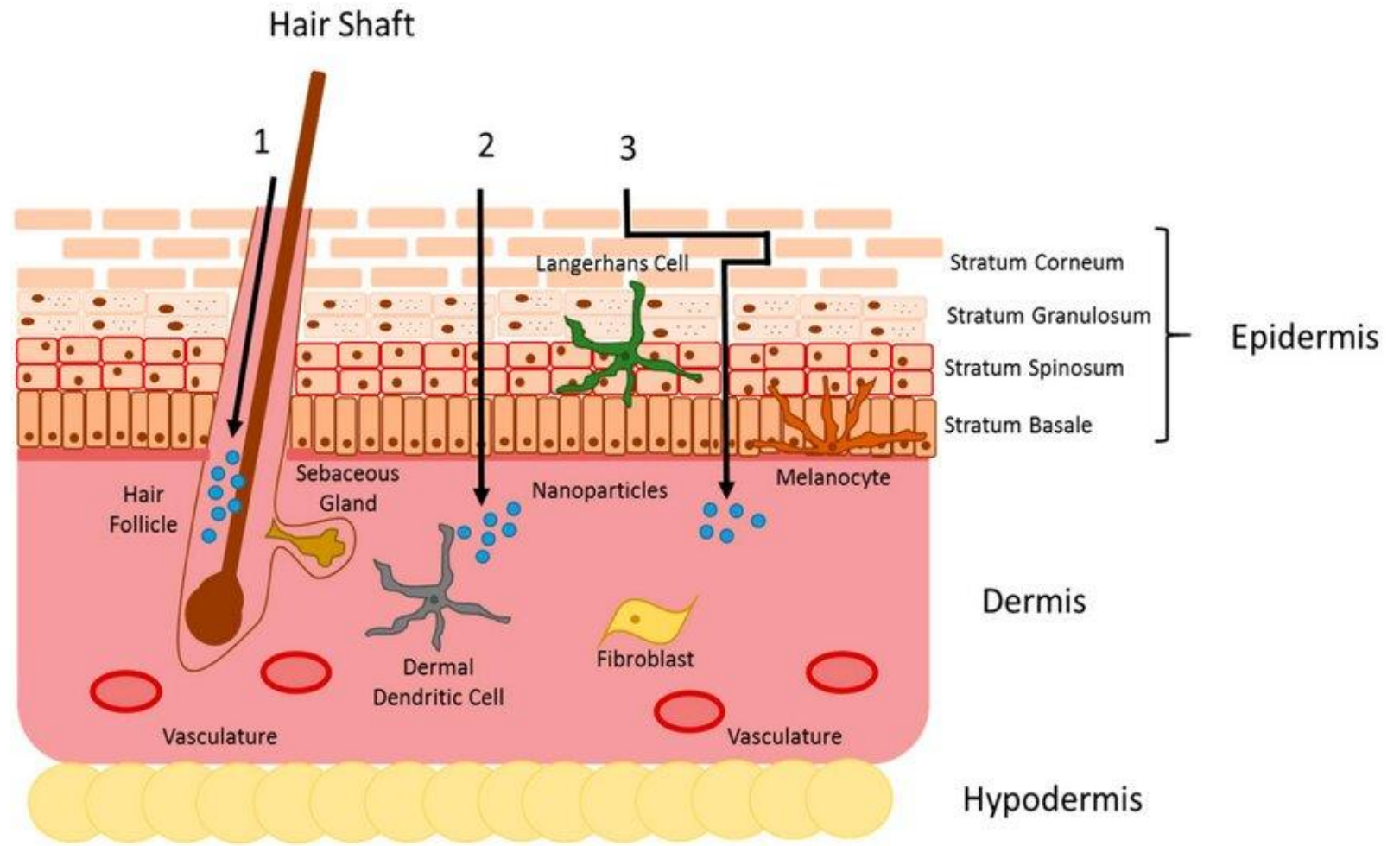
ACTIVE INGREDIENT



NANOENCAPSULATED INGREDIENT

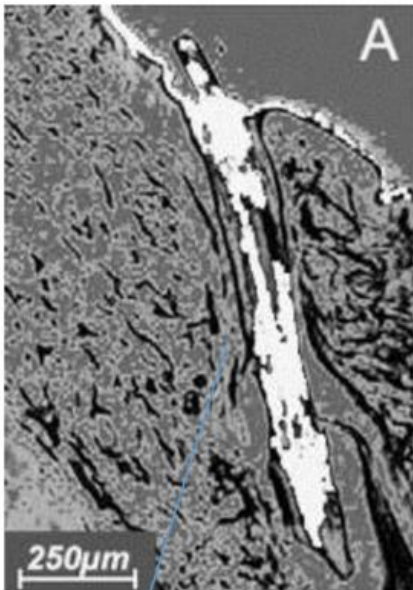
PERMEATION PATHWAYS

- 1) **FOLLICULAR ROUTE:** Ingredients bypass the *stratum corneum*.
- 2) **INTRACELLULAR ROUTE:** Chemical reactions occur inside the cells.
- 3) **INTERCELLULAR ROUTE:** Through a network of small channels.



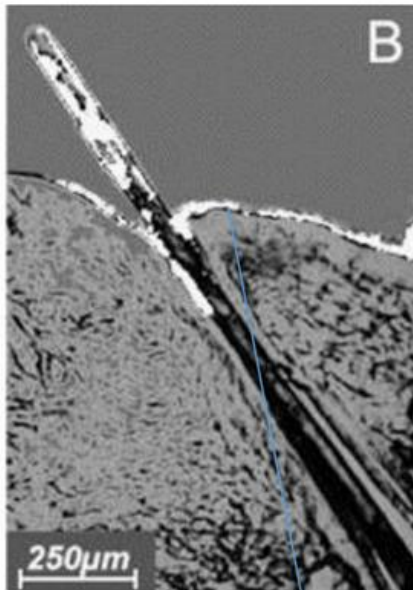
PERMEATION PATHWAYS – FOLLICULAR SPACES

The follicular space is approximately 300 nm, which facilitates the penetration of nanoparticles ranging from 100 to 300 nm through this route.



GEL BASE WITH NANOPARTICLES

#ICosmetologia

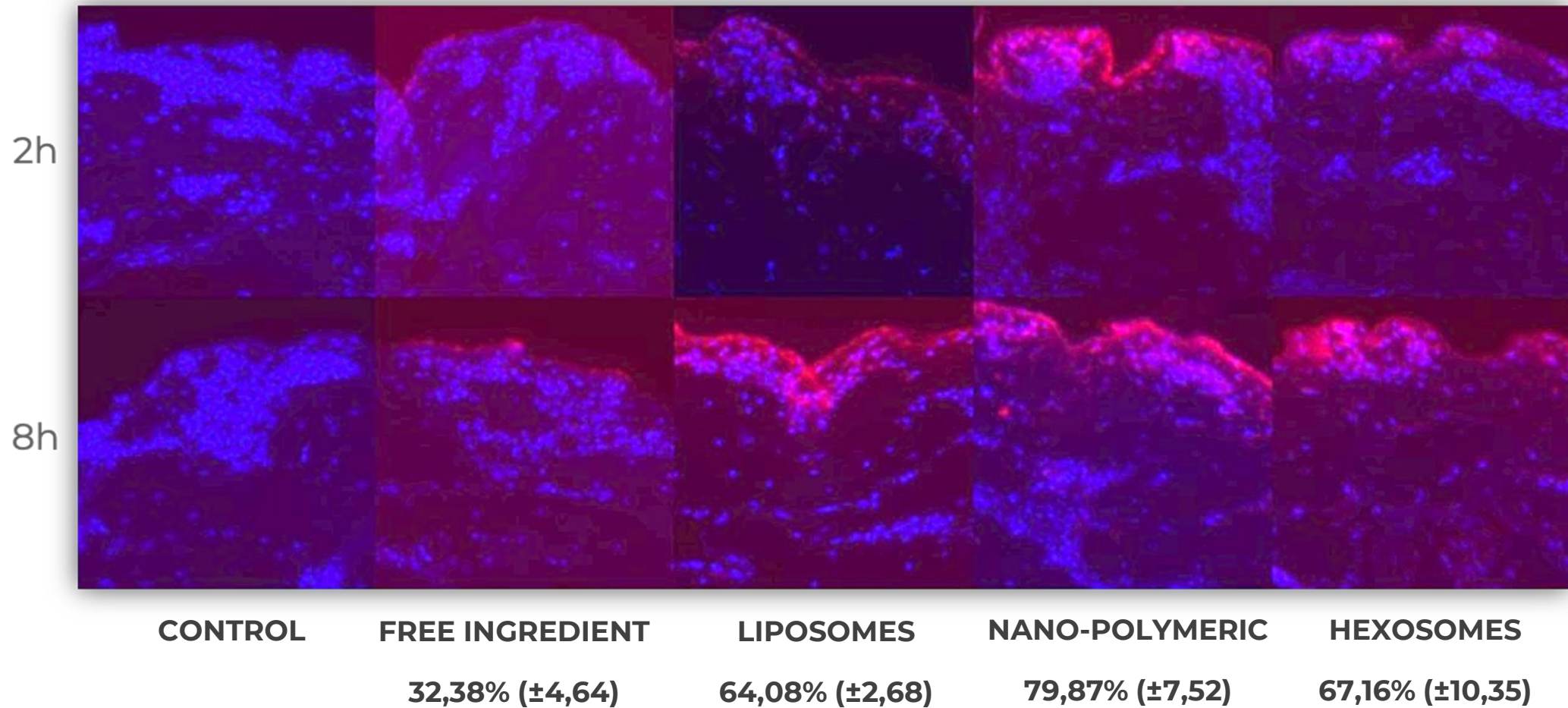


GEL BASE WITH FREE ACTIVE



PERMEATION TESTS

* The tests show permeation of the epidermis.



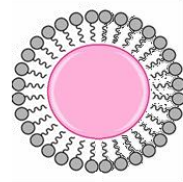
DELIVERY SYSTEMS



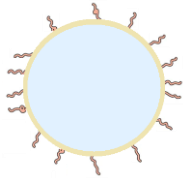
LIPOSOMES



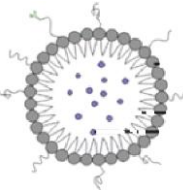
HEXOSOMES



NANO-EMULSION



NANO-POLYMERIC



LIPID POLYMER HYBRID

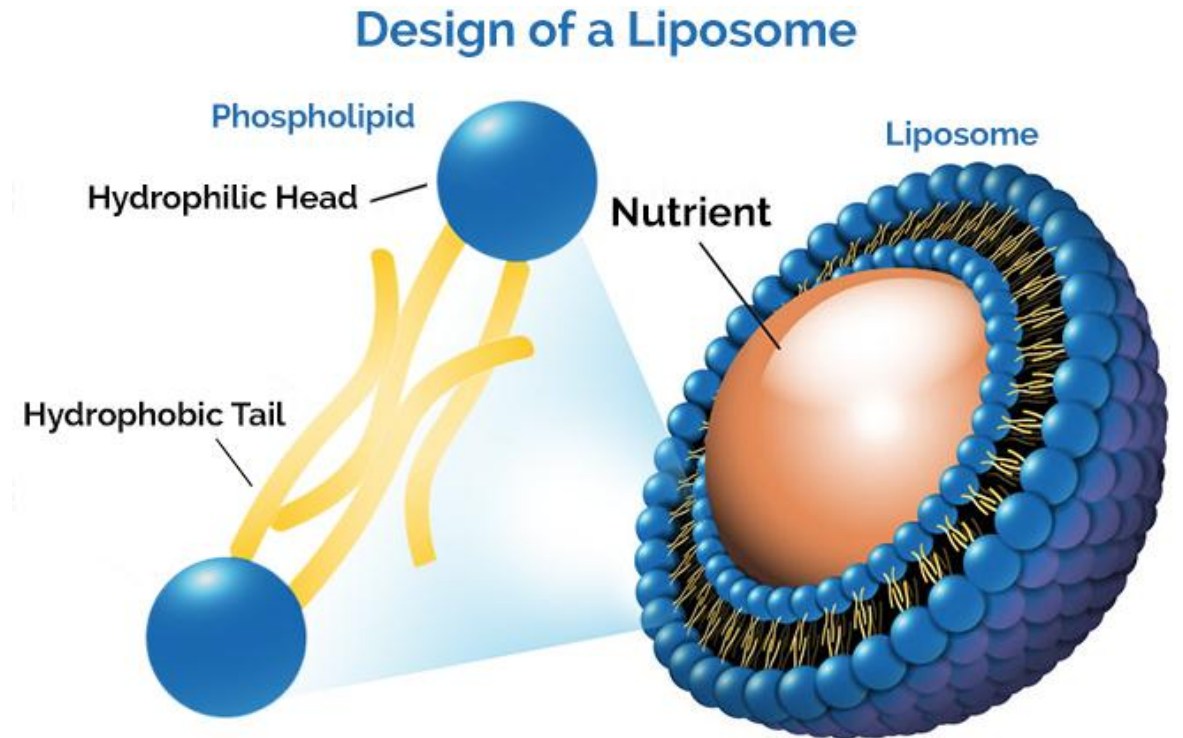


TRANSFERSOMES

LIPOSOMES

A liposome is a **spherical vesicle composed of one or more lipid bilayers**, usually made of **phospholipids**, like cell membranes, facilitating penetration into the skin due to the interaction with the stratum corneum.

Once the liposome permeates the epidermis, enzymatic degradation by lipases triggers the rupture of the vesicles, releasing the active ingredient. This process occurs either in the epidermis or the dermis, depending on the formulation and target site of action.



LIPOSOMES

- **NS ASCORBIC ACID**
- **NS NIACINAMIDE**
- **NS RENEW**
- **NS BTX**
- **NS TRANEXAMIC ACID**
- **NS PHYTO CERAMIDE**

These substances were encapsulated because they are hydrophilic, meaning they have a natural affinity for the aqueous core of the liposome.

APPLICATIONS

Hydrophilic gels, serums, lotions, creams, aqueous and low lipid O/W emulsion-type.

INCOMPATIBILITIES

Products with high content of surfactants and/or lipids.

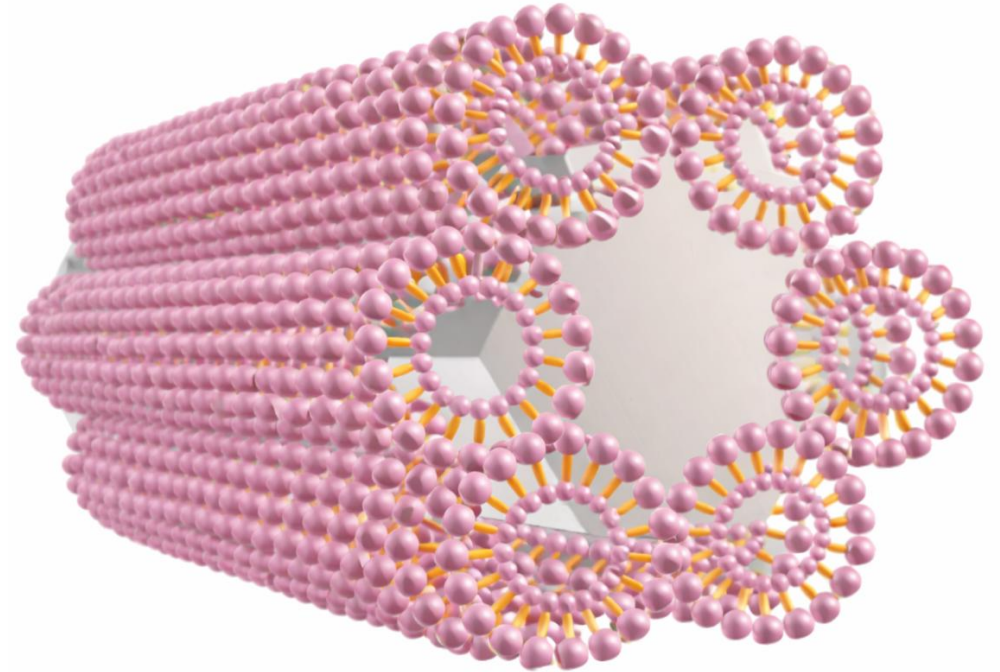
HEXOSOMES

The hexosomes are composed of reverse cylindrical micelles that self-assemble into a hexagonal packing structure. The capsule interacts with the stratum corneum through permeation agents with lipid-like characteristics, facilitating skin penetration.

Once inside the epidermis, the release of the active ingredient occurs through diffusion, driven by pressure differences and structural openings in the capsule, allowing delivery to either the epidermis or dermis.

What differ our Hexosome from the Exosomes?

- Exosomes are biotechnologically derived from plant stem cells.
- Hexosomes are a synthetic nanotechnology.



HEXOSOMES

- **NS BAKUCHIOL**

This active was encapsulated using this nanotechnology due to its chemical structure and high affinity with the components of the hexosome, ensuring better stability and controlled delivery.

APPLICATIONS

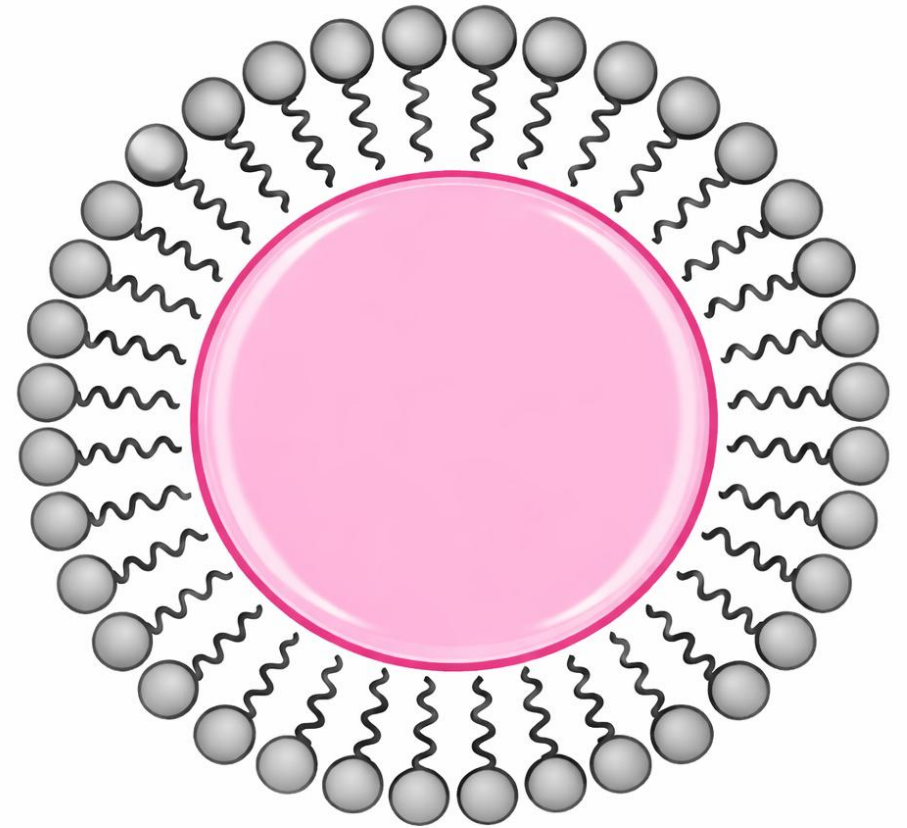
Hydrophilic gels, serums, lotions, creams, aqueous and low lipid O/W emulsion-type.

INCOMPATIBILITIES

Products with high surfactant content as well as highly oily base.

NANO-EMULSION

The nano-emulsion capsules are typically structured as either oil-in-water (O/W) or water-in-oil (W/O) emulsions. In an oil-in-water system, the internal phase consists of oil droplets dispersed in an aqueous external phase. This structure enables the effective delivery of hydrophobic actives within an aqueous environment, promoting better stability and absorption.



NANO-EMULSION

- **NS HYALURONIC ACID**
- **NS SALICYLIC ACID**
- **NS ICARIDIN**

These products were encapsulated in Nano-emulsion, because:

I. Salicylic Acid is lipophilic (hydrophobic) active, which has an affinity for oily substances. Nano-emulsion, a mixture of oil in water (or vice versa), solubilizes salicylic acid in the oily phase.

II. Hyaluronic Acid is hydrophilic active, which fits well in the aqueous phase of the nano emulsion.

APPLICATIONS

Hydrophilic gels, serums, lotions, creams, aqueous cosmetic products and emulsion type O/W.

INCOMPATIBILITIES

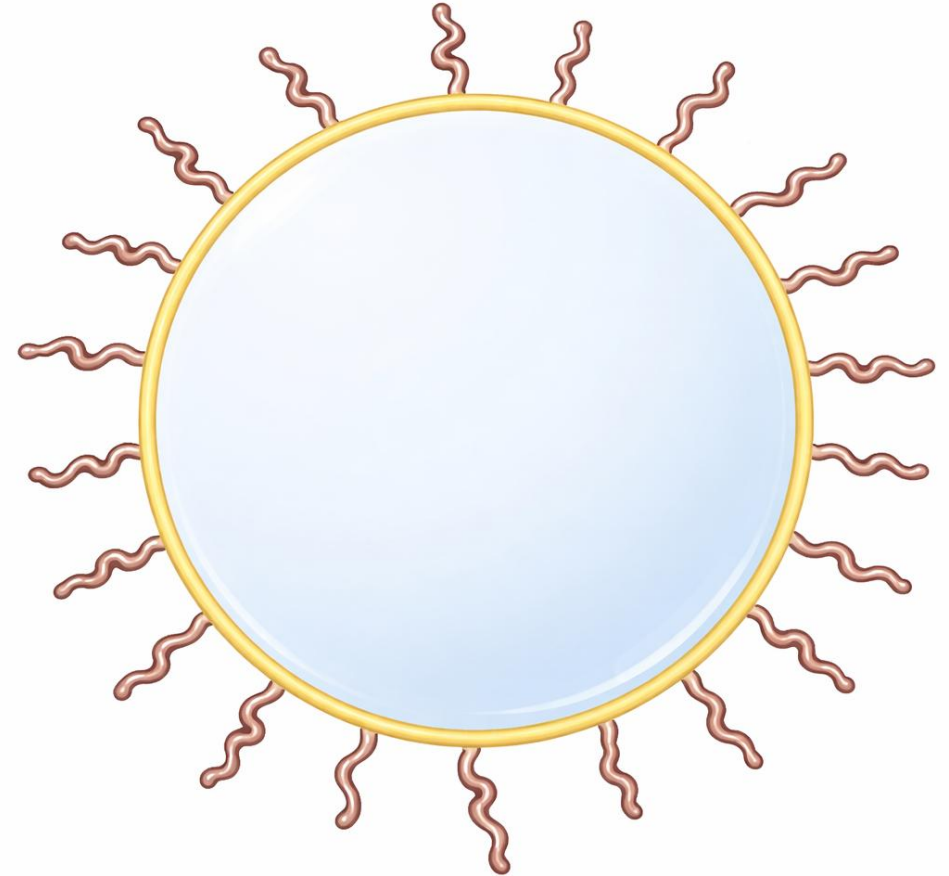
Products with high surfactant content, as well as highly oily bases and bases with high concentration of salts.

NANO-POLYMERIC

Nano-polymeric capsules are composed of a polymeric core surrounded by permeation-enhancing agents. The polymeric core provides structural integrity and controlled release properties, while the outer coating facilitates interaction with the skin barrier, improving penetration and bioavailability of the encapsulated active ingredients.

What about the PCL Biodegradable Polymer?

PCL is a biodegradable polymer that undergoes hydrolysis of its ester bonds, a process catalyzed by enzymes such as lipases. As the nano-polymeric capsule degrades, the active ingredient is released, and the remaining PCL fragments are metabolized and eventually excreted.



NANO-POLYMERIC

- NS ENERGIZE
- NS COENZYME Q10
- NS RESVERATROL
- NS RETINOL PALMITATE
- NS TOCOPHEROL ACETATE
- NS QUERCETIN
- NS ASTAXANTHIN
- NS CHLORELLA
- NS PHYCO
- NS OLIVE UPCYCLING
- NS RETINOL

These substances are soluble in organic media; the technology enhances their stability due to their chemical bonds.

APPLICATIONS

Serums, lotions, creams, aqueous or O/W emulsion-type cosmetic products.

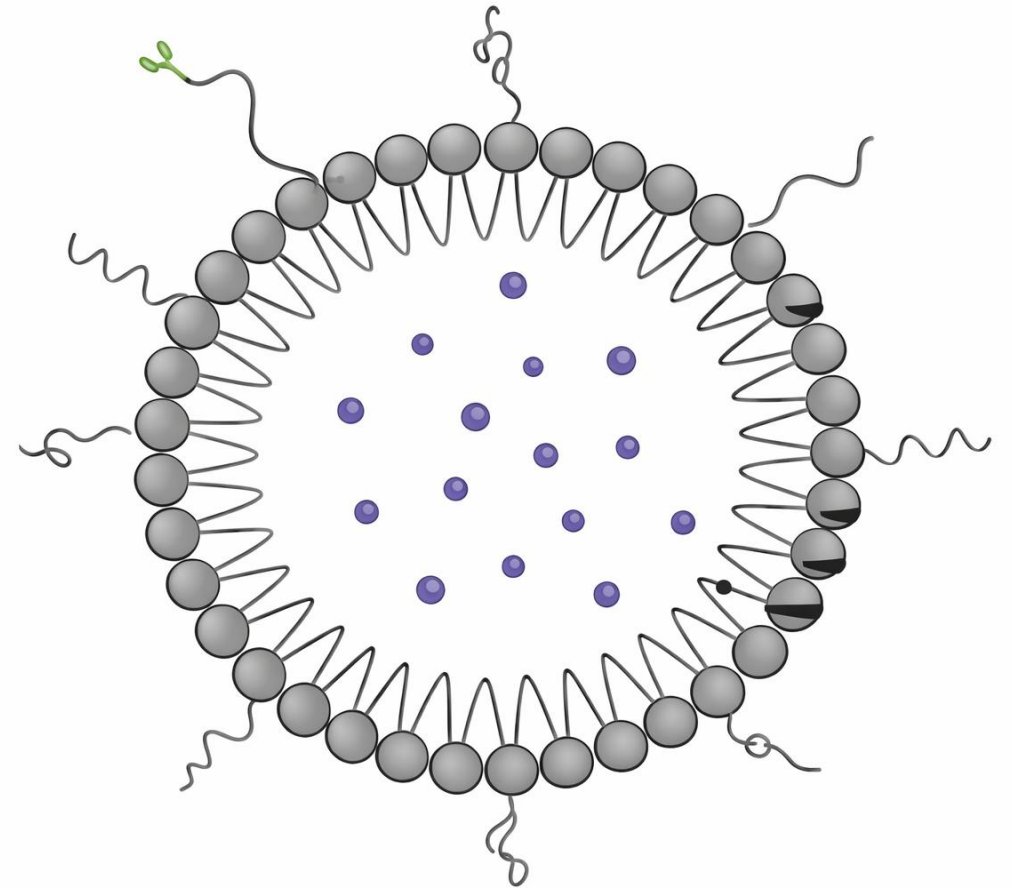
INCOMPATIBILITIES

Oily excipients with chemical structure of aromatic rings.

LIPID-POLYMER HYBRID

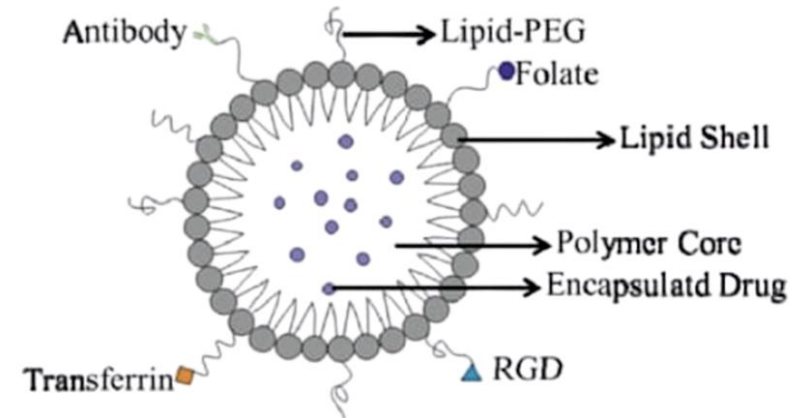
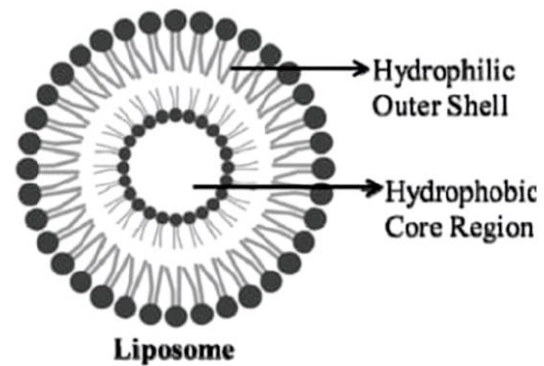
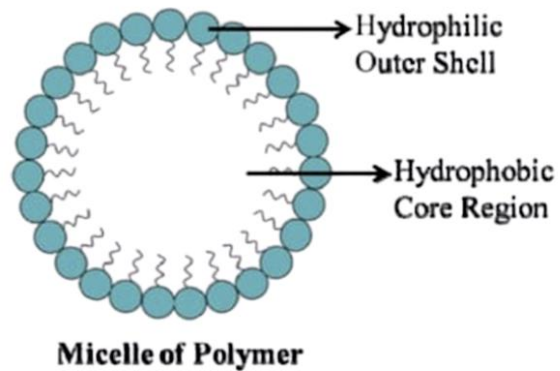
The lipid-polymer hybrid capsule combine the advantageous characteristics of both polymeric nanoparticles and liposomes. These hybrid systems are composed of a polymer core surrounded by a lipid shell, creating a stable and versatile platform for drug delivery.

The polymer core serves as the primary compartment for encapsulating agents, particularly hydrophobic ingredients, ensuring controlled and sustained release. Surrounding this core is a lipid shell, which mimics biological membranes and provides biocompatibility, improved stability in physiological environments, and protection against premature degradation.



LIPID-POLYMER HYBRID

- NS SENEINA
- NS CERAMIDE



APPLICATIONS

Serums, lotions, creams, and aqueous or O/W emulsion-type cosmetic products.

INCOMPATIBILITIES

Products with high levels of surfactants and/or lipids.

TRANSFERSOMES

Transfersomes are **ultradeformable vesicles** similar to liposomes, composed of a phospholipid bilayer surrounding an aqueous core. Their key distinguishing feature is the presence of an **edge activator**, which provides high flexibility and allows the vesicles to deform and pass through skin pores smaller than their own diameter. As a result, transfersomes are particularly effective for transdermal delivery, enabling both hydrophilic and lipophilic ingredients to penetrate deeply into the skin in a non-invasive manner.

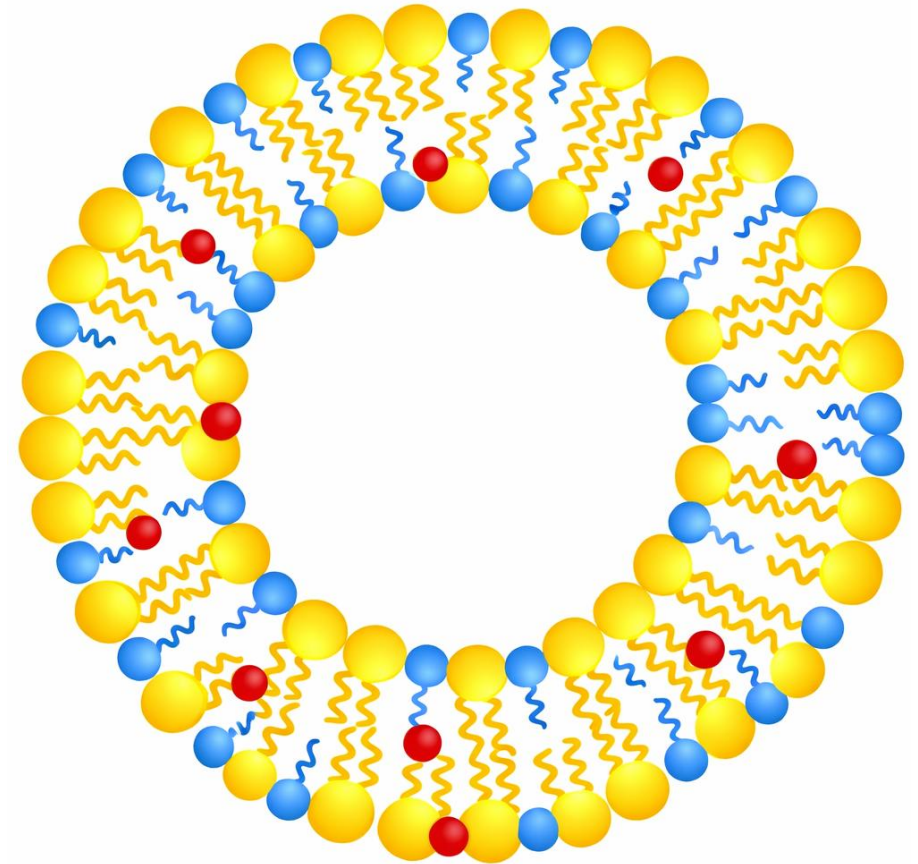
- **NS CLEARDRUFF**
- **NS HYDRAFIBER**

APPLICATIONS

Hair treatment.

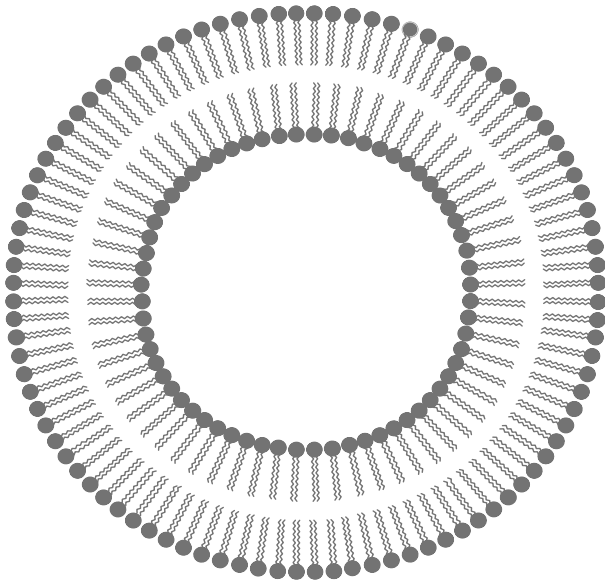
INCOMPATIBILITIES

Non-aqueous media.



CONTROLLED RELEASE

BETTECH's nanoparticle delivery systems ensure a prolonged effect of the active ingredient on the cells.



ENZYMATIC

Enzymatic release occurs in the skin, where specific enzymes, such as lipase, **degrade the nanoparticle matrix**, releasing the encapsulated active ingredient. This method is useful for controlled administration.

DIFFUSIONAL

In the diffusion-based release process, the active ingredient is released from the nanoparticles by diffusion, moving from a region of higher concentration to one of lower concentration.

TECHNICAL MATERIALS



LITERATURE: Efficacy tests, INCI and CAS numbers, and physicochemical properties, statements (Microplastics, SDS, BSE-TSE, etc.).



TECHNICAL DOSSIER: Statements, technical specifications, and composition.



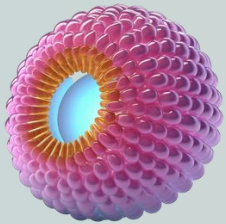
PARTICLE SIZE ANALYSIS: Analysis that ensures particle size safety, following strict technical standards.



WHY USE NANOTECHNOLOGY?

	FREE INGREDIENT	BETTECH'S NANOENCAPSULATION
 STABILITY	 Instability when exposed to light, heat, and oxidation.	 Protection against environmental factors.
 COMPATIBILITY	 Difficulty formulating with multiple active ingredients.	 Greater compatibility between ingredients.
 COVERAGE	 Uneven distribution on the skin surface.	 Uniform and effective coverage.
 PERMEATION	 Low penetration into the skin layers.	 High penetration into deeper layers.
 SOLUBILITY	 Low solubility of the active ingredient.	 Excellent solubility and dispersion.
 RELEASE	 Rapid and uncontrolled release.	 Gradual and prolonged release of the active ingredient.
 COST-BENEFIT	 Higher formulation cost.	 Optimised cost.

CUSTOMISED PRODUCTS



Your own
nanoencapsulated
active ingredient.



Technical support for
conducting efficacy
tests.



Resolution of stability,
odour, colour, and other
issues.





NS
ASCORBIC ACID
VC

NS
HYALURONIC ACID
HA

NS
SALICYLIC ACID
SA

NS
OLIVE UPCYCLING
Ov

NS
ASTAXANTIN
Ax

NS
CHLORELLA
Ch

NS
BAKUCHIOL
Bk

NS
BTX
BTX

NS
RENEW
RW

NS
TRANEXAMIC ACID
TA

NS
RESVERATROL
RV

NS
RETINOL
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NS
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QUERCETIN
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ENERGIZE
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SENEİNA
Se

NS
HYDRAGLOW
Hy

NS
COEZYME Q10
Q10

NS
RETINOL PALMITATE
NS

NS
TOCOPHEROL ACETATE
NS

NS
CERAMIDE
Ce

NS
PHYTO CERAMIDE
PCe

NS
ICARIDINA
Ic

NS
NIACINAMIDE
NS

NS
CLEARDRUFF
CD

NS
HYDRAFIBER
NFi

VOLUMES



**DON'T WASTE YOUR
INVESTMENT.**

WE HAVE THE PERFECT VOLUME FOR YOUR PROJECT.



Bakuchiol is a plant-derived active ingredient recognised for its effectiveness in reducing fine lines and wrinkles, promoting greater firmness, elasticity, and a rejuvenated appearance of the skin. Through nanoencapsulation, its release is optimised in the deeper layers of the skin, resulting in visibly healthier skin with reduced oiliness, improved texture, and a more even tone.



Anti-inflammatory action.



Soothing effect on the skin.



Reduction of oiliness.



Stimulation of collagen synthesis.



Improvement of skin firmness and **reduction of** sagging.

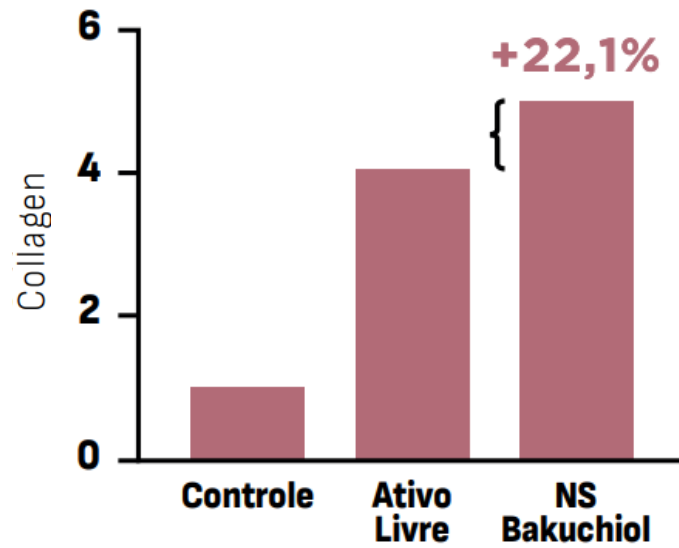
TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Hexossoma	Hydrophilic gels, serums, lotions, creams, aqueous cosmetic products, and O/W type emulsions with low lipid content.	0,5 to 5%	Products with a high content of surfactants, as well as highly oily bases.	Diffusional gradient (slow release)	4,0 – 8,0	Slightly yellowish	Milky	Water dispersible	20 – 35°C at the end of the process



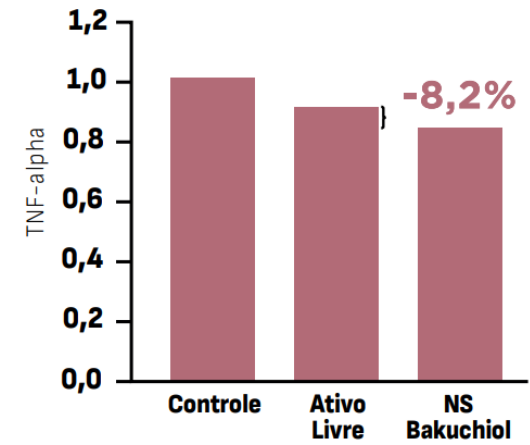
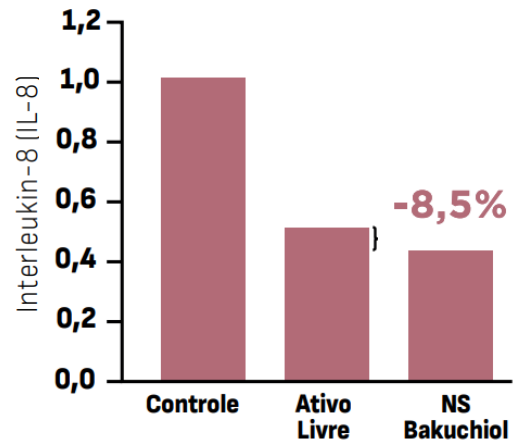
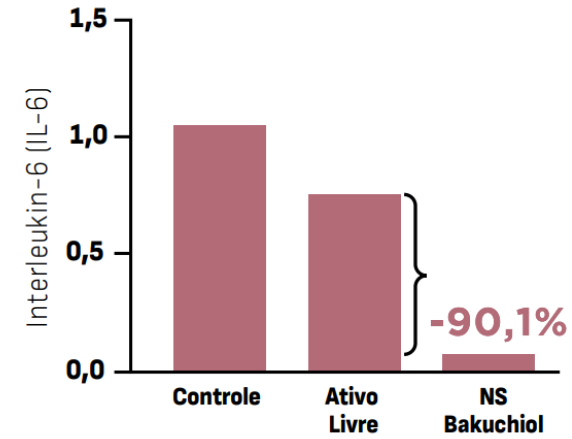
NS
BAKUCHIOL
BK

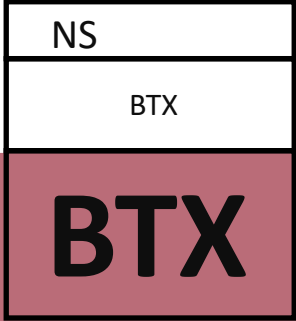
Composition:
BAKUCHIOL

SKIN FIRMNESS



DERMOCALMING EFFECT





Composition:
TRYPEPTIDE



Reduction of facial muscle cell contractility.



Anti-wrinkle action through the **reduction of expression line depth.**

NS BTX is a nanostructured form that provides a safe and non-invasive botox-like effect. The active ingredient promotes relaxation of the facial muscles, reducing the depth of expression lines and delivering a smoother, more rejuvenated appearance. Nanocapsulation technology enhances penetration and stability, ensuring controlled release targeted to the muscle tissue. The result is skin with an immediate and long-lasting lifting effect.

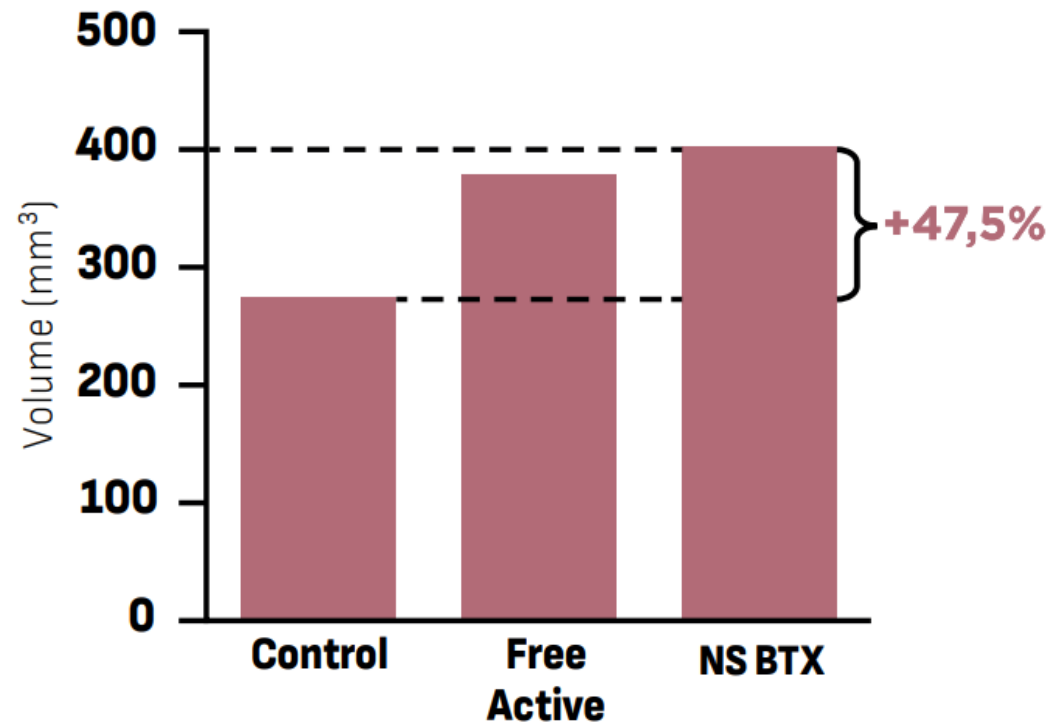
TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Liposome	Hydrophilic gels, serums, lotions, creams, aqueous cosmetic products, and O/W type emulsions with low lipid content.	1 to 5%	Products with a high content of surfactants and/or lipids.	Enzymatic (slow release)	4,0 - 7,0	Slightly yellowish	Translucent	Water dispersible	20 – 35°C at the end of the process

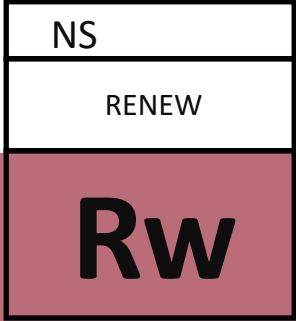


NS
BTX
BTX

Composition:
TRIPEPTIDE

REDUCTION OF MUSCLE CELL CONTRACTILITY





Composition:
NIACINAMIDE AND PAPAIN



Stimulation of cellular energy.



Protection of the skin barrier.



Stimulation of cellular metabolism.



Stimulation of ceramide synthesis.

The multiple formulation allows Niacinamide to act in reducing oxidative stress, strengthening the skin barrier, and evening out skin tone, while Papain provides enzymatic renewal, promoting gentle exfoliation and stimulating the regeneration of the *stratum corneum*. Dual encapsulation ensures high stability and bioavailability of the actives, protecting them from degradation and enabling controlled and effective release.

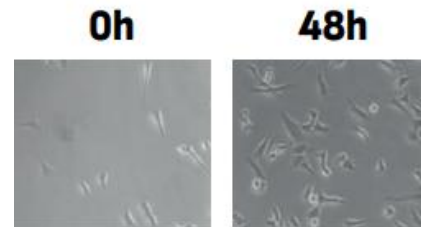
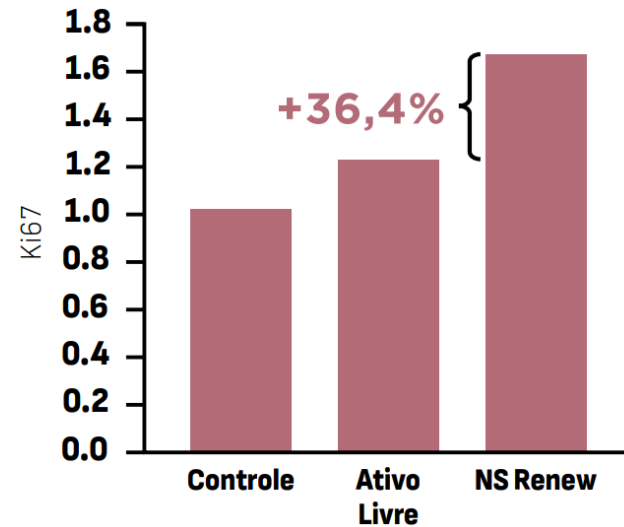
TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Liposome	Serums, lotions, creams, and aqueous or O/W emulsion-type cosmetic products.	1 to 6%	Oily excipients with a chemical structure of aromatic rings.	Enzymatic (slow release)	4,0 - 8,0	Slightly yellowish.	Translucent	Water dispersible	20 – 35°C at the end of the process



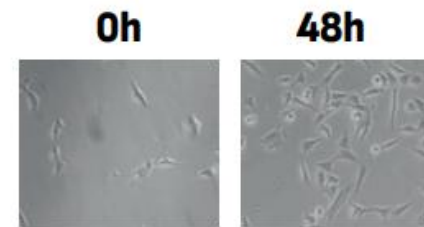
NS
RENEW
Rw

Composition:
NIACINAMIDE AND PAPAIN

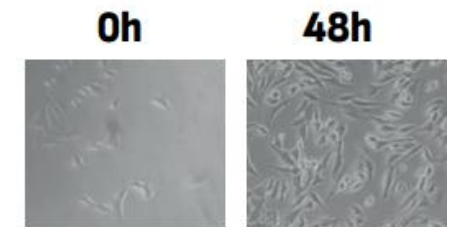
STIMULUS TO CELLULAR RENEWAL



Control

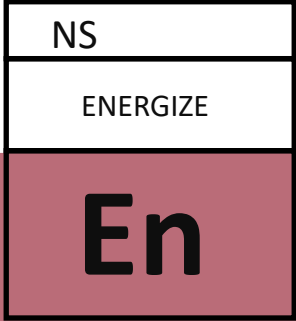


Free Active



NS Renew

The solutions containing the control groups and samples were applied to the surface of the skin model every 2 days for 7 consecutive days, after which the procedure for extracting messenger RNA was performed. The experiments were conducted in triplicate for each group.



Composition:
LIPOIC ACID AND COENZYME Q10

NS Energize is a nanostructured combination designed to revitalise the skin by stimulating cellular energy. Through deep and controlled release, it enhances antioxidant action, promotes collagen and elastin synthesis, improves firmness and radiance, and reduces sagging. The ingredient also provides protection against photoageing thanks to coenzyme Q10's ability to absorb UV radiation.



Protection against the oxidative effects of UV radiation.



Stimulation of cellular energy.



Stimulation of collagen and elastin synthesis.



Soothing effect on the skin.



Anti-inflammatory properties.

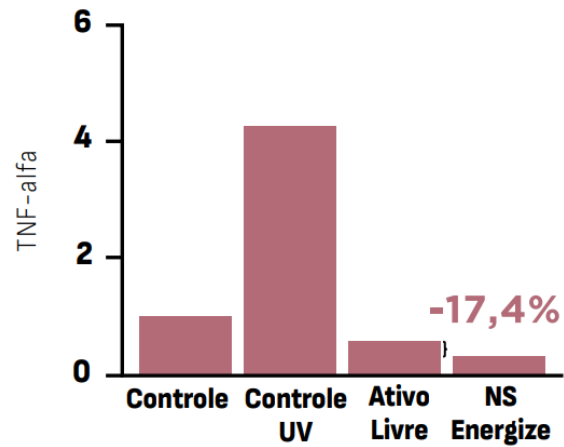
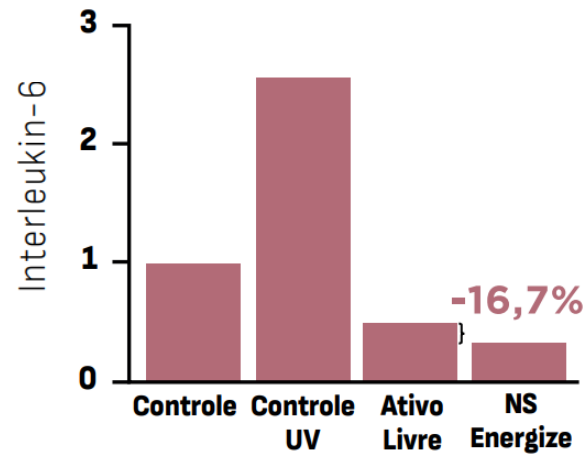
TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Nano Polymeric	Serums, lotions, creams, and aqueous or O/W emulsion-type cosmetic products.	2 to 10%	Oily excipients with a chemical structure of aromatic rings.	Enzymatic (slow release)	4,0 - 8,0	Slightly yellowish.	Milky	Water dispersible	20 – 35°C at the end of the process



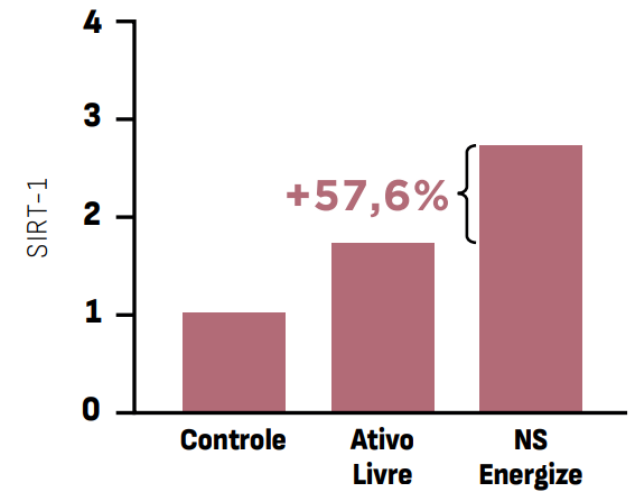
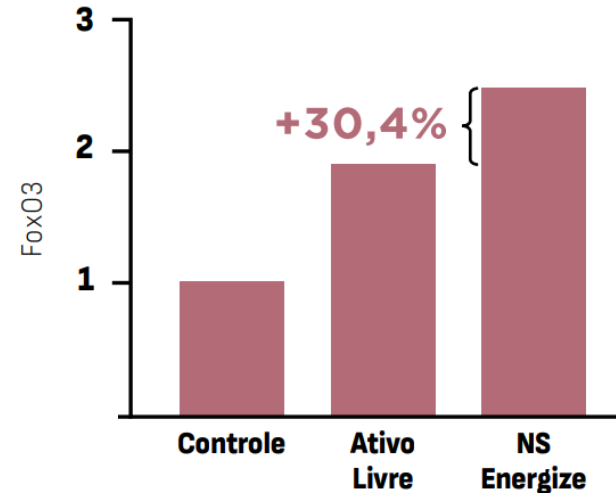
NS
ENERGIZE
En

Composition:
LIPOIC ACID AND COENZYME Q10

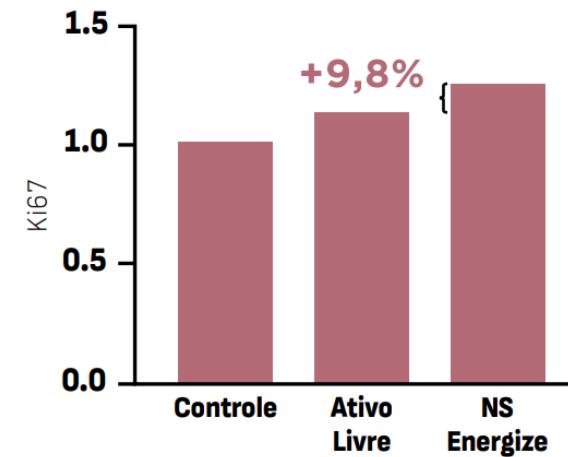
DERMOCALMING EFFECT



PROTECTION AGAINST THE EFFECTS OF PHOTOAGING



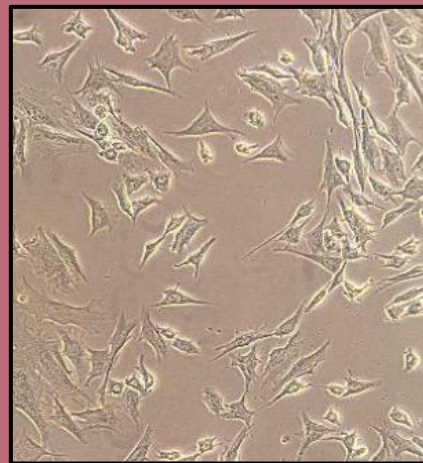
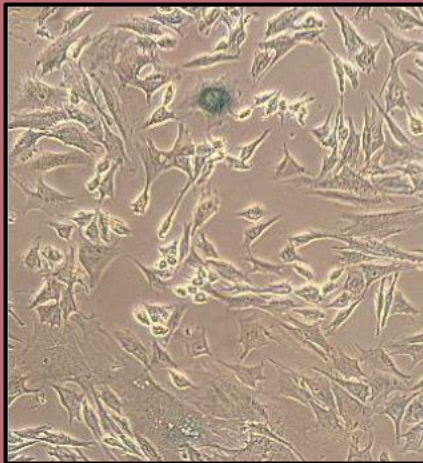
STIMULUS TO CELLULAR RENEWAL



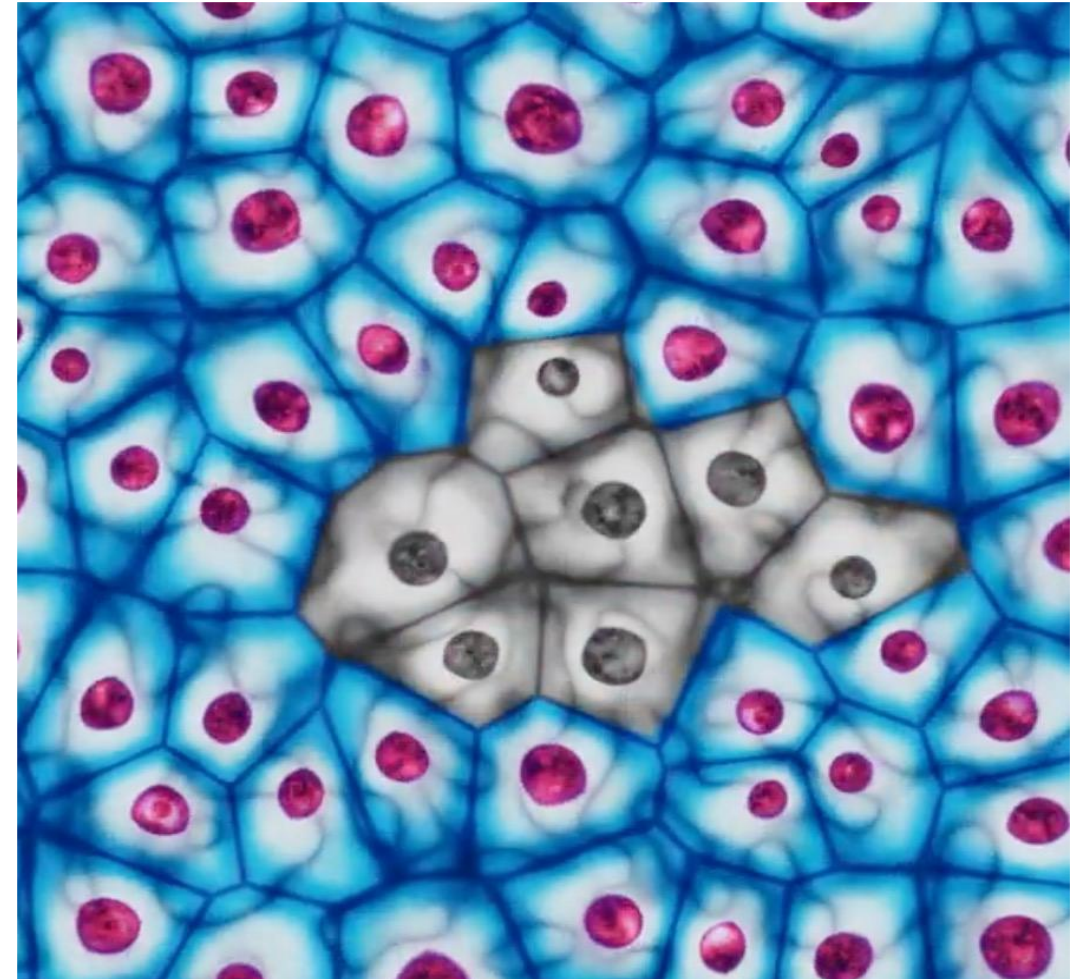


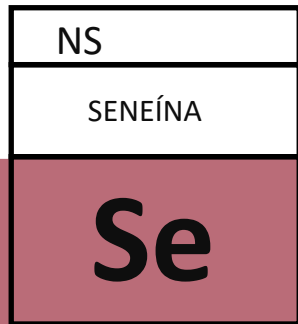
WHAT ARE SENESCENT CELLS?

Senescent cells are cells that have undergone significant DNA damage, mitochondrial dysfunction, and telomere shortening due to numerous cell divisions, resulting in an inability to continue dividing. In senescence, the cell is not eliminated and remains metabolically active, developing a secretory phenotype composed of pro-inflammatory cytokines and extracellular matrix-degrading enzymes.



Representative images of cellular senescence were obtained using beta-galactosidase. A 78.7% reduction in senescent cells was observed in the study conducted.





Composition:
OLEUROPEIN, QUERCETIN AND FISETIN

Seneína combines cutting-edge nanotechnology with powerful phenolic actives — oleuropein, quercetin, and fisetin. These compounds work synergistically to reverse the effects of cellular senescence. While oleuropein protects against oxidative damage, quercetin and fisetin eliminate senescent cells (senolytic action) and interrupt inflammatory processes (senomorphic action). Bettech's encapsulation technology ensures that the actives penetrate deeply into the dermis, promoting visibly younger, firmer, and healthier skin.



Reduction of Cellular Senescence.



Senolytic and Senomorphic activity.



Anti-ageing action.



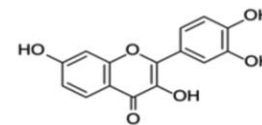
Skin protection and rejuvenation.



Antioxidant and anti-inflammatory properties.

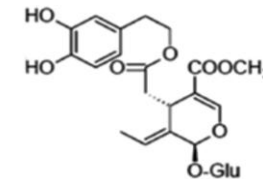
SENOLÍTICO

Fisetina



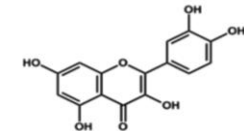
SENOMÓRFICO

Oleuropein



SENOLÍTICO

Quercetina



TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	SIZE D50	PH	COLOR	APPEARANCE	SOLUBILITY
Lipidemic polymetric	Serums, lotions, creams, and aqueous or O/W emulsion-type cosmetic products.	1 to 3%	Products with high levels of surfactants and/or lipids.	Enzymatic (slow release)	130-600	3,0 - 7,0	Greenish yellow	Milky	Water dispersible



NS

HYDRAGLOW

NEW!

Hy

Composition:
HYALURONIC ACID

Hyaluronic acid is a natural polymer with a high capacity for water retention, essential for the support and hydration of the skin. With ageing, its production decreases, contributing to the appearance of wrinkles and fine lines. Although topical application has limited effects due to its high hydrophilicity and molecular size, its replenishment helps improve the skin's appearance and hydration.



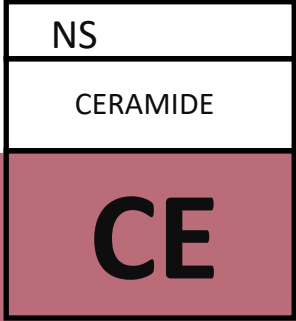
Increase in skin hydration.



Anti-wrinkle action.



Filling effect on the skin.



NEW!

Composition:
CERAMIDES TYPE 3/NP

NS Ceramide is an advanced nanotechnological solution for restoring the skin barrier. Incorporating ceramides into nanocarriers provides benefits superior to conventional systems, such as protection against degradation, enhanced permeation into the skin’s stratum corneum, and gradual delivery of the active ingredient.



Strengthens the skin barrier.



Supports the **recovery** of sensitised skin.



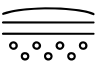
Stimulates the synthesis of filaggrin and involucrin.



Provides a **dermocalm**ing effect on reactive skin.



Reduces the expression of inflammatory cytokines.



Modulates the cutaneous inflammatory response.

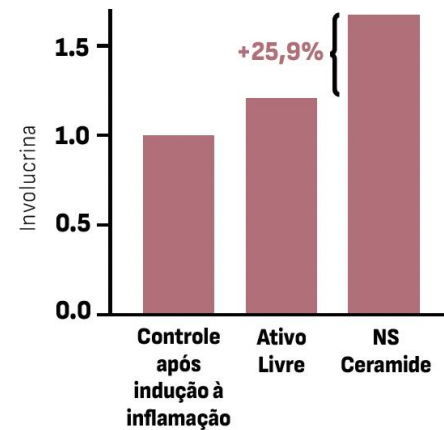
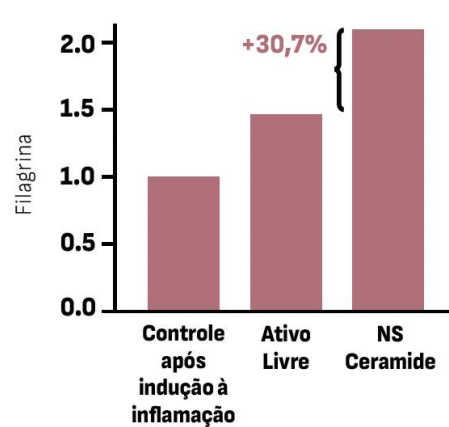
TECNOLOGY	APPLICATION	SUGGESTED USAGE %	INCOMPATIBILITIES	RELEASE MECHANISM	PH	SIZE D50	COLOR	APPEARANCE	SOLUBILITY
Lipidic Polymeric	Serums, lotions, creams, and aqueous cosmetic products or O/W type emulsions.	1 - 10%	Products with high surfactant and/or lipid content	Enzymatic (slow release)	3,0 - 7,0	130-600	White to slightly yellowish	Milky	Dispersible in water



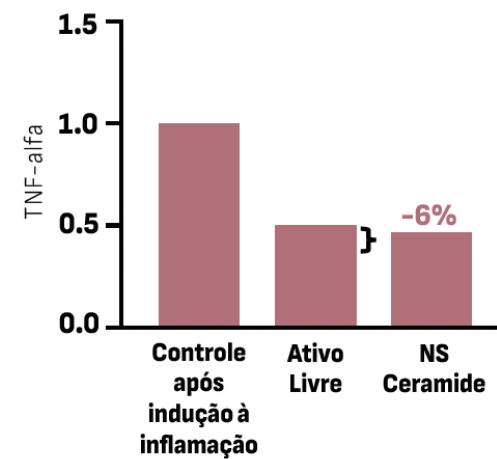
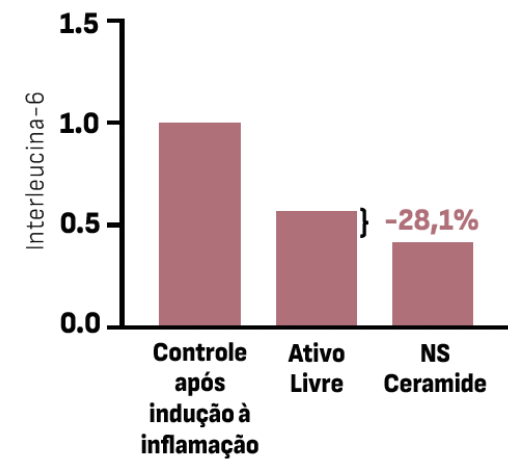
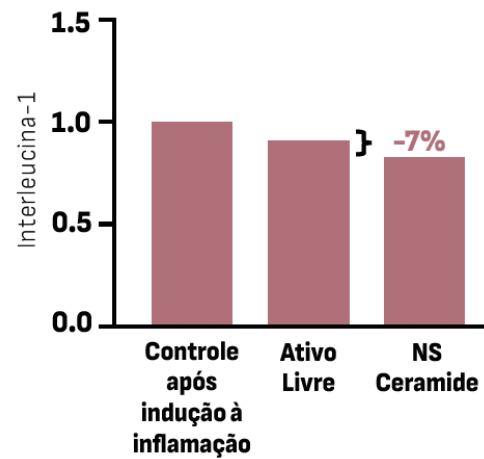
NS
CERAMIDE
CE

Composition:
CERAMIDES TYPE 3/NP

SKIN BARRIER PROTECTION



DERMO-SOOTHING EFFECT





NS

PHYTO CERAMIDE

PhC

Composition:
PHYTOCERAMIDES

NS Phyto Ceramide is a plant-derived cosmetic ingredient that acts multifunctionally on the skin. Ceramides strengthen the skin barrier, control transepidermal water loss, protect against external aggressors, and contribute to hydration, pH regulation, inflammation control, and improved skin appearance. Topical use of plant-derived phytoceramides, compatible with endogenous ceramides, helps restore barrier function. It is indicated for intense hydration, barrier recovery, soothing action, and care of sensitive, reactive, or ageing skin.



Strengthens the skin barrier.



Supports the **recovery** of sensitised skin.



Stimulates the synthesis of filaggrin and involucrin.



Provides a **dermocalm**ing effect on reactive skin.



Reduces the expression of inflammatory cytokines.



Modulates the cutaneous inflammatory response.

TECNOLOGY	APPLICATION	SUGGESTED USAGE %	INCOMPATI-BILITIES	RELEASE MECHANISM	PH	SIZE D50	COLOR	APPEARANCE	SOLUBILITY
Liposome	Serums, lotions, creams, and aqueous cosmetic products or O/W type emulsions.	1 to 6%	Products with high surfactant content, as well as W/O emulsions.	Enzymatic (slow release)	2,0 - 7,0	130-600	Slightly yellowish	Translucent	Dispersible in water



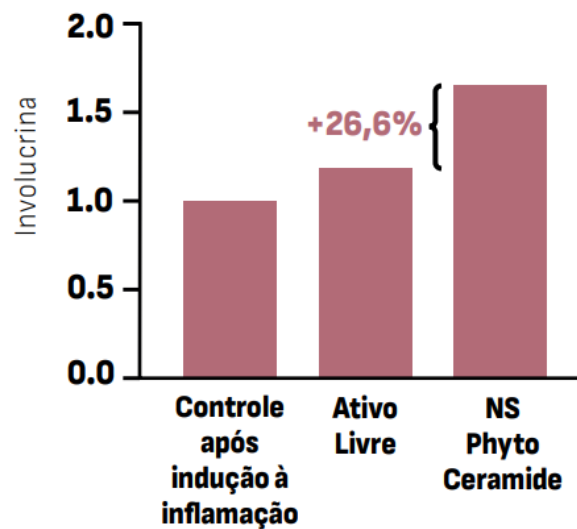
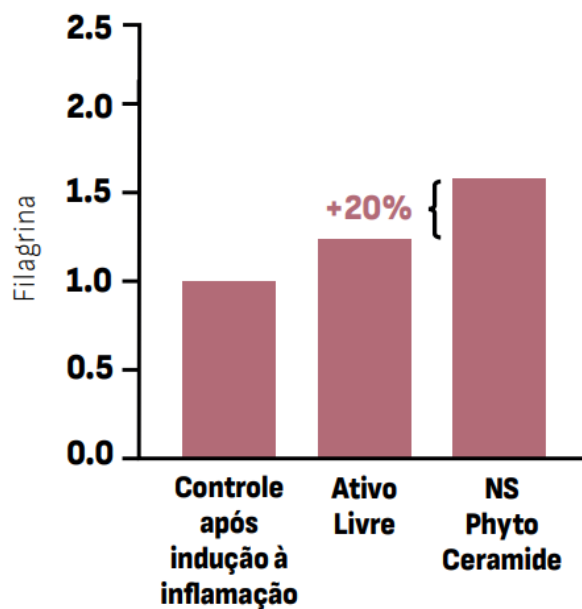
NS

PHYTO CERAMIDE

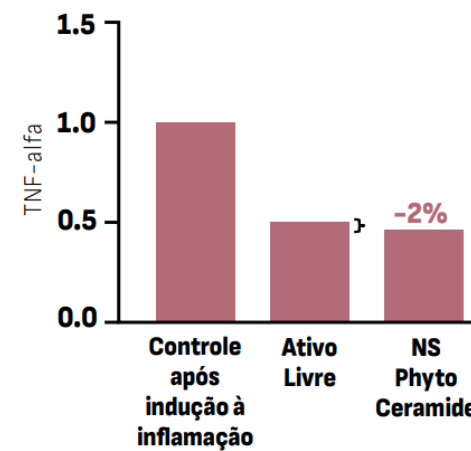
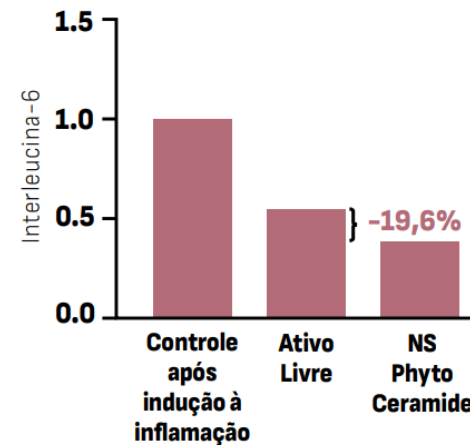
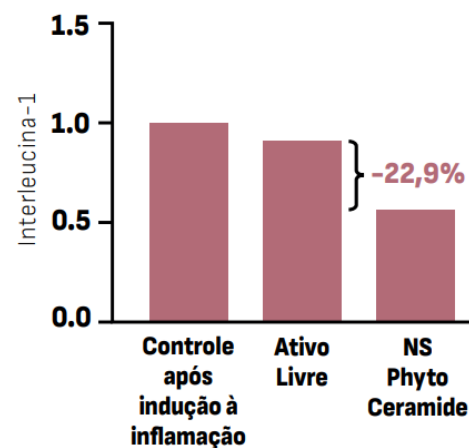
PhC

Composition:
PHYTOCERAMIDES

SKIN BARRIER PROTECTION



DERMO-SOOTHING EFFECT





NS
ICARIDINA
Ic

NEW!

Composition:
ICARIDIN

The compound is considered one of the safest due to its low toxicity and the long-lasting protection it provides as an insect repellent. It is particularly effective thanks to the expansion of its area of effect, acting against mosquitoes that transmit diseases, such as *Aedes aegypti* (yellow fever vector). Additionally, it is hypoallergenic and non-oily, minimising discomfort during continuous use.



Broad-spectrum repellent active encapsulated in **polymeric nanoparticles**.



Proven 8-hour efficacy and clinical testing against *Aedes aegypti*, *Culex quinquefasciatus*, and *Anopheles aquasalis*.



Controlled-release technology **ensures long-lasting protection**.



Optimises the active ingredient's **bioavailability** on the skin surface **without increasing dermal permeation**.

	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	SIZE D50	PH	COLOR	APPEARANCE	SOLUBILITY
Nanoemulsion	Repellents	25%	Non-aqueous media	Not applicable	300-1200	4,5 - 8,0	White	Paste-like	Water dispersible



NS

ICARIDINA

Ic

Composition:
ICARIDIN

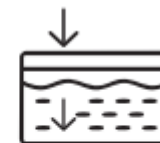
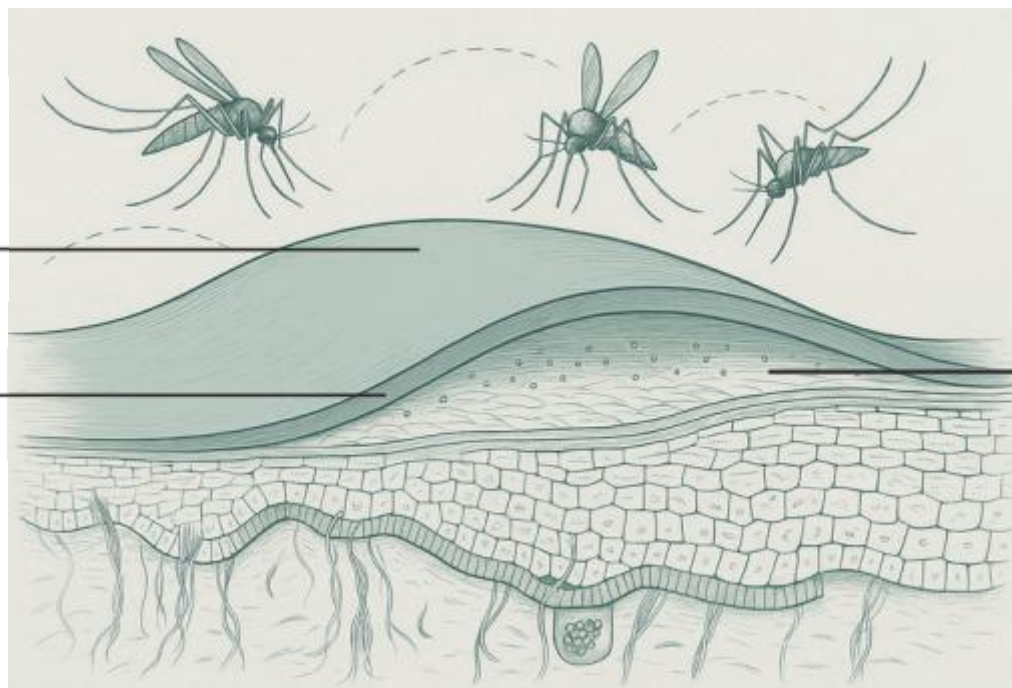
PROTECTION MECHANISM



Extended
protection time.



Controlled release.



Reduces permeation
of the active
ingredient into the
dermis.

EnVeil



NS
ICARIDINA
Ic

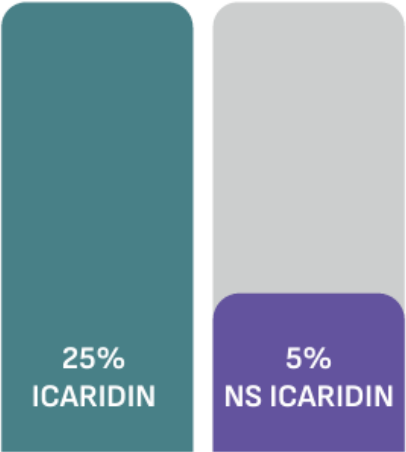
Composition:
ICARIDIN

IN VIVO TESTS

The tests were conducted with **X volunteers**.

		1h	2h	3h	4h	5h	6h	7h	8h	Exposição 30s
Aedes aegypti	LANDING	0	0	0	0	0	0	0	8	20
	BITE	0	0	0	0	0	0	0	6	11
Culex quinquefasciatus	LANDING	0	0	0	0	0	0	0	9	20
	BITE	0	0	0	0	0	0	0	6	11
Anopheles aquasalis	LANDING	0	0	0	0	0	0	0	10	20
	BITE	0	0	0	0	0	0	0	6	11

The assays were conducted in accordance with the EPA guidelines (OPPTS 810.3700) and ANVISA requirements (RDC No. 19/2013). Voluntary participants had their forearms treated with the standard product dose and were exposed, at regular intervals, to cages containing female *Aedes aegypti*, *Culex quinquefasciatus*, and *Anopheles aquasalis*. The number of landings and bites was monitored until loss of effect was confirmed. The product demonstrated 100% repellent efficacy for 8 hours against all tested species.



8 HOURS
of protection using
only 5% free icaridin
(25% NS Icaridin)



NS

CLEARDRUFF

CD

NEW!

Composition:
PIROCTONE OLAMINE, CYCLOPIROX OLAMINE,
SALICYLIC ACID, AND BISABOLOL

NS Cleardruff uses transfersome technology to deliver four complementary actives into the deeper layers of the scalp. This targeted release enhances antifungal, keratolytic, and anti-inflammatory effects while minimising irritation. The formulation provides superior dandruff control, increased scalp comfort, and long-lasting results.



Helps **reduce** and **control** dandruff and scalp flaking.



Visibly **reduces dandruff** in up to **14 days**.



100% of participants showed a **reduction in dandruff intensity**.



Reduces dandruff intensity by up to 59.2%.

TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	SIZE D50	COLOR	APPEARANCE	SOLUBILITY
Transfersome	Hair Treatment	2% - 5%	Non-aqueous media	Enzymatic	6 - 9	150-500	Slightly yellow – Yellow	Milky	Water dispersible



NS

CLEARDRUFF

CD

Composition:

**PIROCTONE OLAMINE, CYCLOPIROX OLAMINE,
SALICYLIC ACID, AND BISABOLOL**

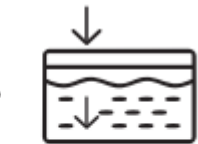
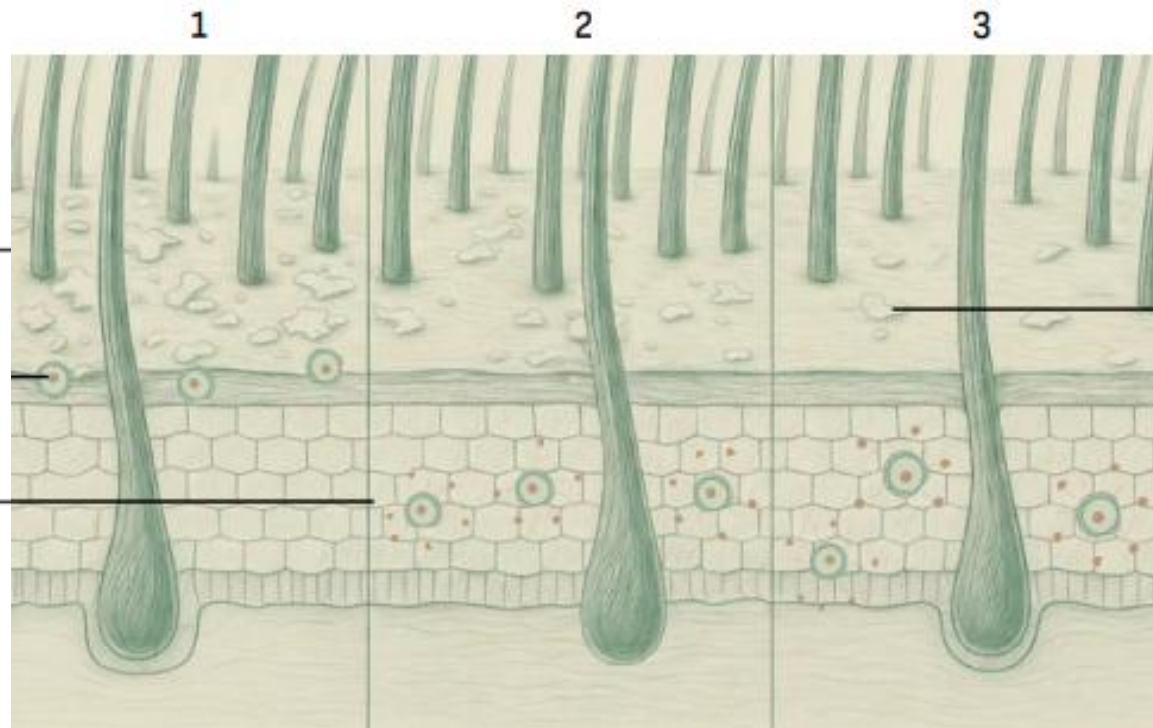
ACTION MECHANISM



Reduction in
dandruff
quantity.



Prolonged
release of
actives.



More efficient
permeation.

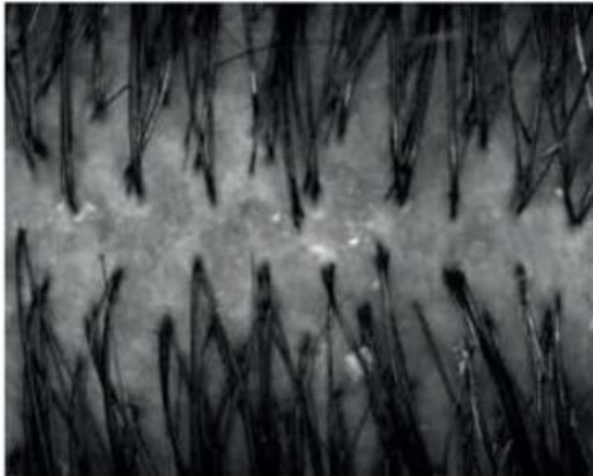
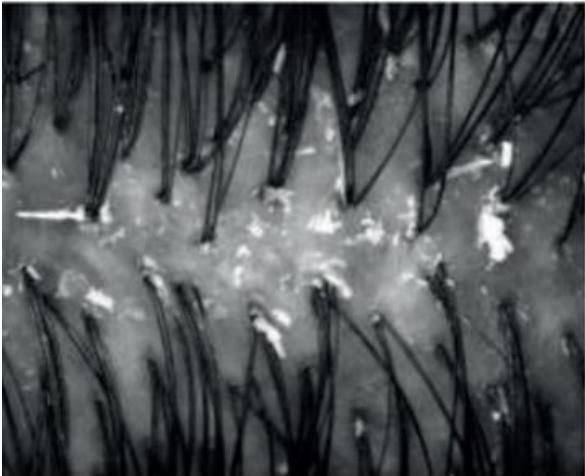


NS
CLEARDRUFF
CD

Composition:
**PIROCTONE OLAMINE, CYCLOPIROX OLAMINE,
SALICYLIC ACID, AND BISABOLOL**

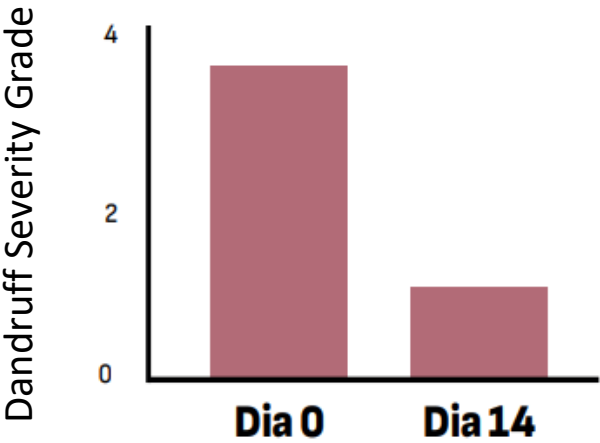
IN VIVO TESTS

The tests were conducted with **X volunteers**.



The study was planned and conducted in accordance with the provisions of Resolution 466/12 of the National Health Council, regarding Guidelines and Regulatory Standards for Research Involving Human Subjects.

During participant recruitment, volunteers were instructed to suspend the use of any topical, cosmetic, or dermatological products applied to the scalp and hair 48 hours prior to the start of the study. On the study day, recruited participants who attended the laboratory were informed by the researcher about the study procedures, ethical and legal aspects, risks and benefits, medical support, reimbursement of participation costs, and were asked to sign the informed consent form (ICF) in two copies. The methodology consisted of a subjective analysis of clinical efficacy, conducted by a trained evaluator at the beginning of the study and after 14 days of home use of the investigational product.



Dados médios		% melhora	% participantes que apresentam melhora
Inicial	Após 14 dias		
3,5	1,4	59,2	100



NS

HYDRAFIBER

NFi

NEW!

Composition:
CYSTEINE, COCONUT OIL, MACADAMIA OIL,
AND MANGO BUTTER



Maintains hair hydration for 24 hours.



Restores the hair’s hydration level.



Stronger hair.



Increased hair fiber elasticity.

NS Hydrafiber uses transfersome technology to deliver nourishing and strengthening actives into the hair fiber. Plant-derived lipids restore softness, shine, and protection, while functional cysteine and keratin-binding complexes reinforce structure and elasticity. This targeted delivery results in stronger, healthier, and more resilient hair with long-lasting hydration.

TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	SIZE D50	COLOR	APPEARANCE	SOLUBILITY
Transfersome	Hair Treatment	2% - 8%	Non-aqueous media	Gradual diffusion	5 - 7	100-500	Transparent – slightly yellow	Translucent	Water dispersible



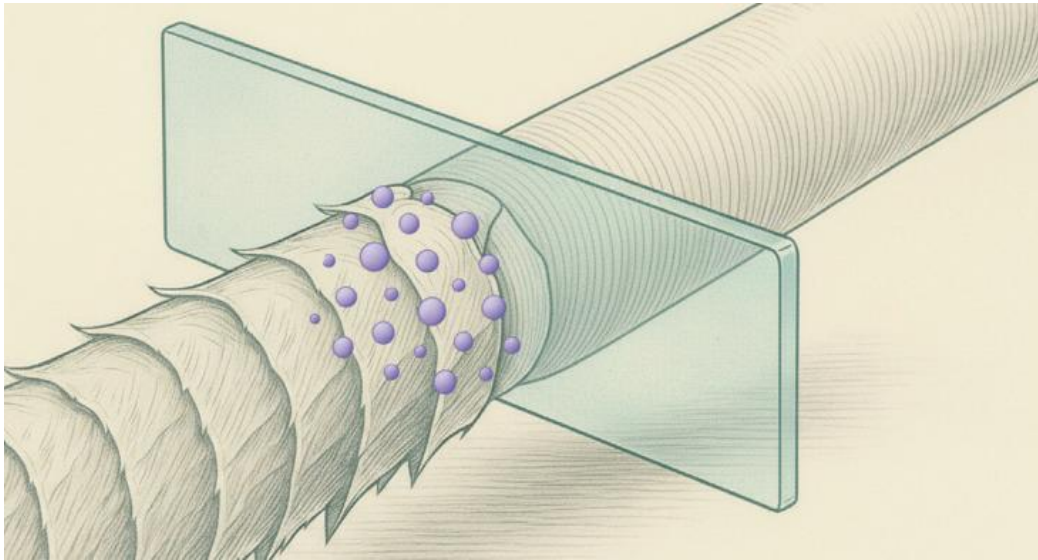
NS

HYDRAFIBER

NFi

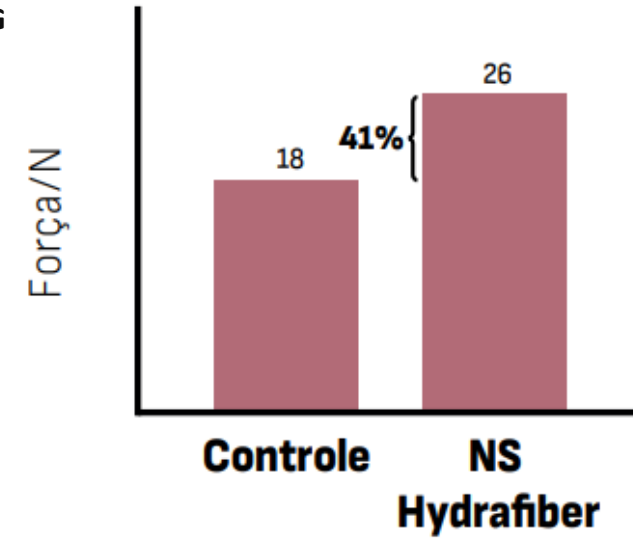
Composition:

**CYSTEINE, COCONUT OIL, MACADAMIA OIL,
AND MANGO BUTTER**

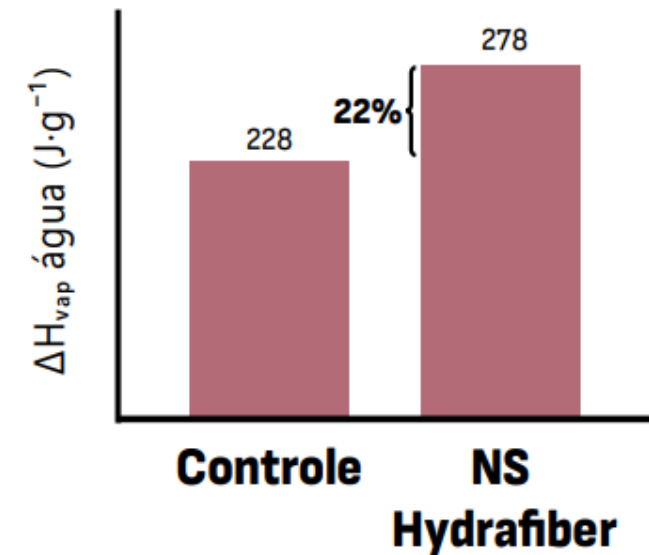


Ultra-deformable vesicles that penetrate the interior of the hair fiber for deep treatment and revitalisation of the strands.

HAIR STRENGTHENING



HAIR HYDRATION





NS

OLIVE
UPCYCLING

Ov

Composition:
OLIVE EXTRACT

NS Olive Upcycling, by Bettech, makes use of olive pomace, which is rich in antioxidants that fight free radicals and protect against oxidative stress and ageing. Its anti-inflammatory properties reduce interleukin-6 and TNF- α , promoting a soothing effect. Through nanotechnology, it enhances the permeation of bioactive compounds by means of a biocompatible platform. NS Olive Upcycling combines nature and science for healthy and radiant skin.



Protection against the oxidative effects of UV radiation.



Protection against the effects of photoaging.



Increase in the skin's antioxidant effect.



Soothing effect on the skin.

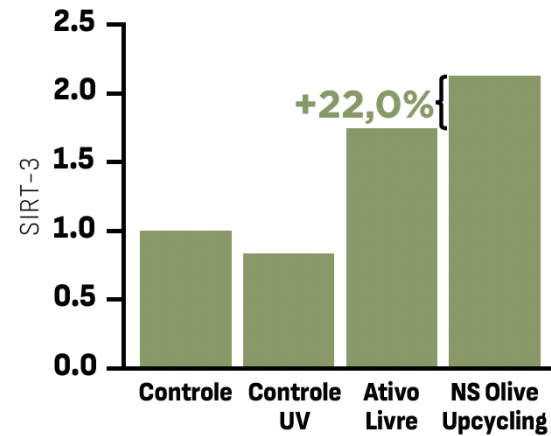
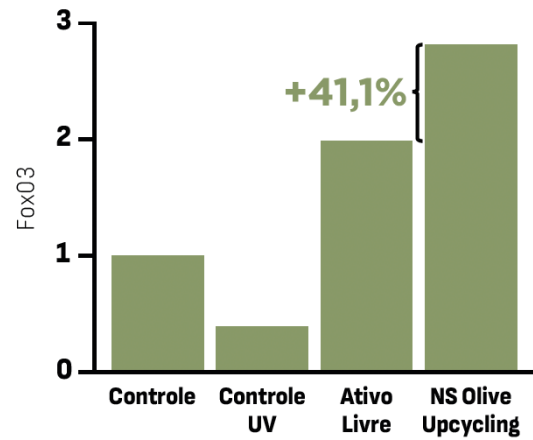
TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Nano Polymeric	Serums, lotions, creams, and aqueous or O/W type emulsion cosmetic products	1 to 3%	Oily excipients with a chemical structure of aromatic rings	Enzymatic (slow release)	4,0 – 8,0	White	Milky	Water dispersible	20 – 35°C at the end of the process



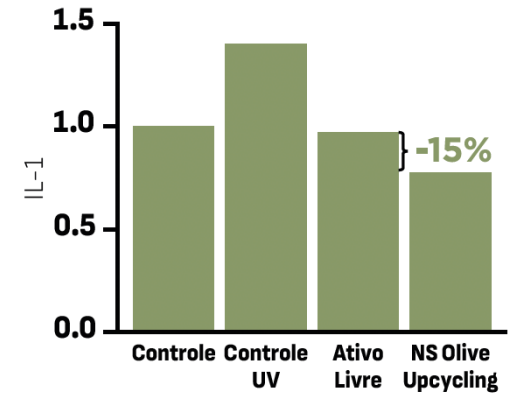
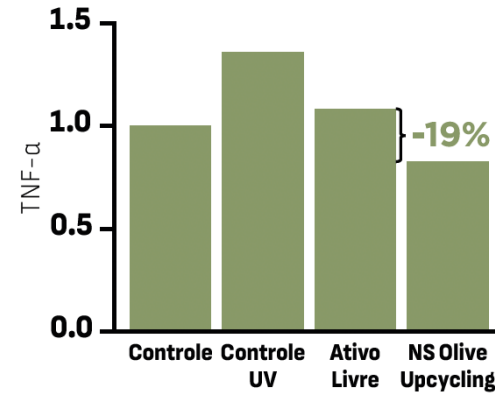
NS
OLIVE UPCYCLING
Ov

Composition:
OLIVE EXTRACT

PROTECTION AGAINST PHOTOAGING



DERMOCALMING EFFECT





Astaxanthin is a natural carotenoid known for its multiple skin health benefits, including antioxidant and anti-inflammatory actions, reduction of hyperpigmentation, and prevention of photoageing with decreased wrinkle formation. However, its cosmetic application is limited due to its low water solubility and chemical instability. Formulation through encapsulation in nanocarriers enables the effective delivery of astaxanthin to the deeper layers of the skin, making it an innovative solution to protect and revitalise the skin.



Protection against the oxidative effects of UV radiation.



Reduction of cellular senescence.



Skin firmness through collagen stimulation.



Protection against the degradation of the extracellular matrix.



Anti-inflammatory properties.



Stimulation of cellular energy.

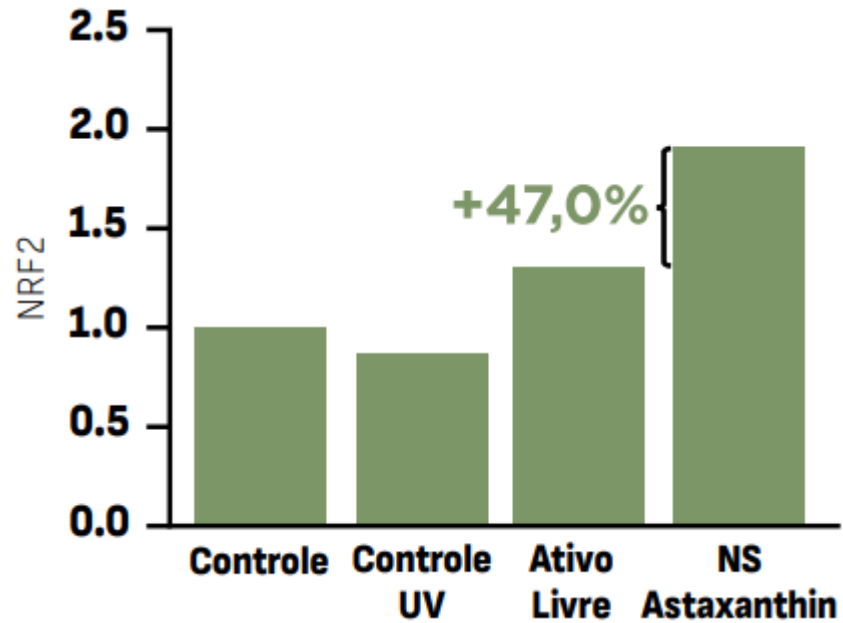
TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Nano Polymeric	Serums, lotions, creams, and aqueous or O/W type emulsion cosmetic products	1 to 3%	Oily excipients with a chemical structure of aromatic rings	Enzymatic (slow release)	4,0 - 8,0	Orange	Milky	Water dispersible	20 – 35°C at the end of the process



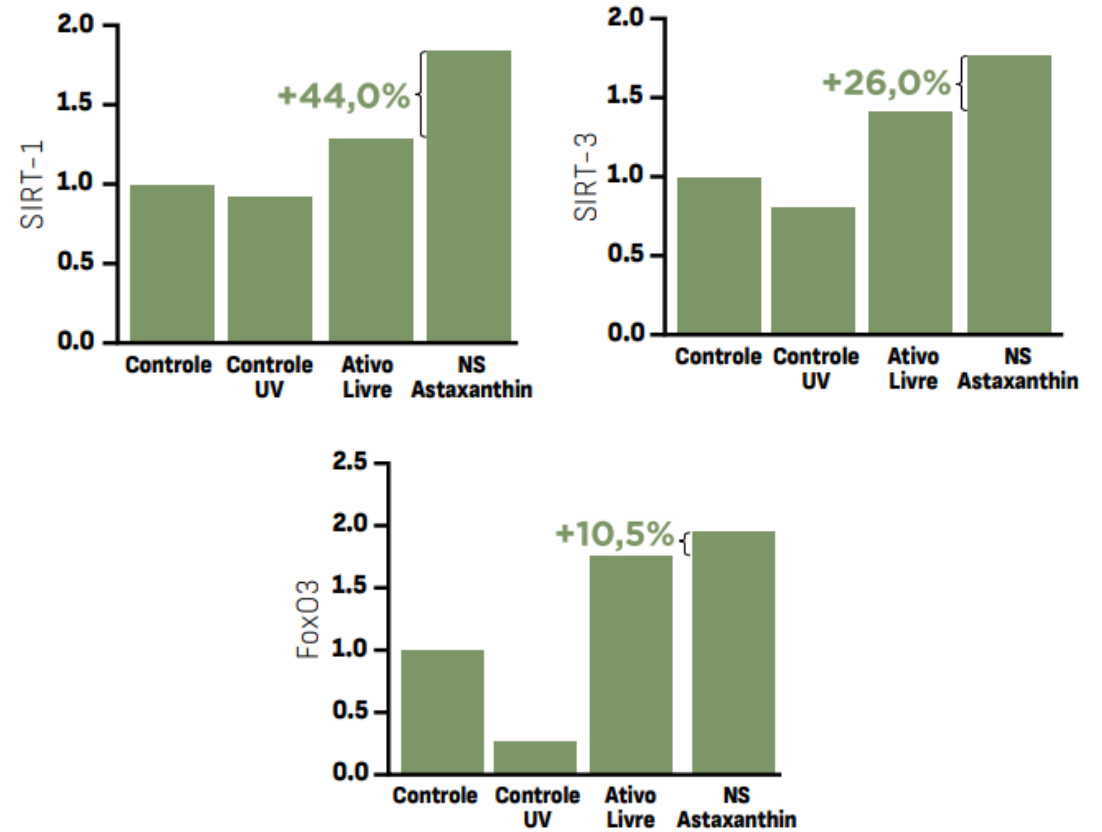
NS
ASTAXANTHIN
Ax

Composition:
ASTAXANTHIN

PROTECTION AGAINST OXIDATIVE EFFECTS CAUSED BY UV RADIATION



PROTECTION AGAINST PHOTOAGING





NS

CHLORELLA

Ch

Composition:
Chlorella sp.

NS Chlorella is the nanostructured form of *Chlorella sp.* extracts, a microalga rich in bioactive compounds with antioxidant, anti-inflammatory, and antipollution actions. Encapsulated in reduced particles, Chlorella reaches the deeper layers of the skin, delivering its bioactive compounds effectively and safely. The result is healthier, revitalised skin protected against environmental damage, with minimal risk of irritation.



Protection against the oxidative effects of UV radiation.



Stimulation of elastin synthesis.



Detox effect.



Antipollution effect.

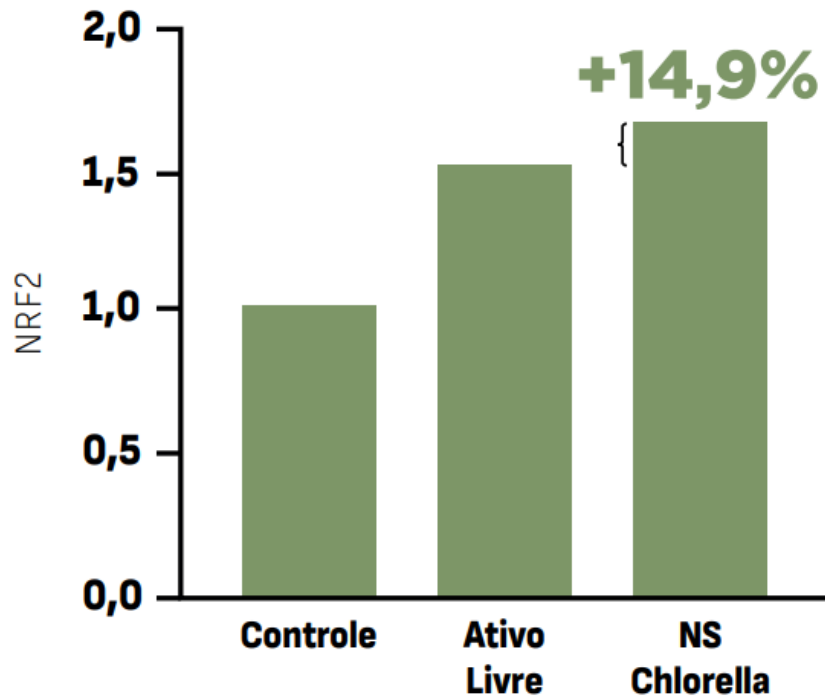
TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Nano Polymeric	Serums, lotions, creams, and aqueous or O/W type emulsion cosmetic products	1 to 3%	Oily excipients with a chemical structure of aromatic rings	Enzymatic (slow release)	5,0 – 9,0	White	Milky	Water dispersible	20 – 35°C at the end of the process



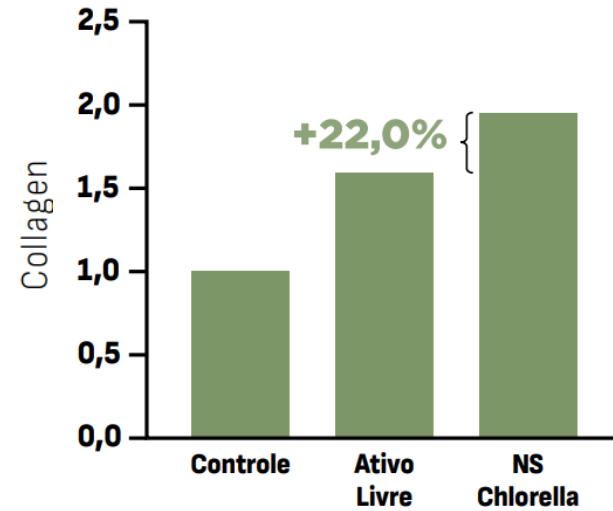
NS
CHLORELLA
Ch

Composition:
Chlorella sp.

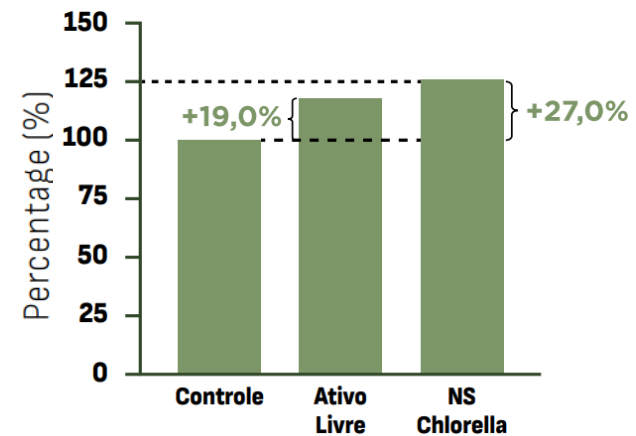
PROTECTION AGAINST OXIDATIVE EFFECTS CAUSED BY UV RADIATION



SKIN FIRMNESS



ANTI-POLLUTION EFFECT





NS Phyco is the nanostructured form of phycoerythrin, a water-soluble phycobiliprotein with powerful antioxidant, anti-wrinkle, and anti-ageing properties. The nanostructure enables deep penetration, controlled release, and protection of the active ingredient, ensuring maximum efficacy with minimal risk of irritation. It is ideal for revitalised, radiant, and healthy skin, and also functions as a safe natural colourant in tinted cosmetics.



Protection against the oxidative effects of UV radiation.



Protection against the degradation of the extracellular matrix.



Strengthening of the skin barrier.



Reduction of collagen and elastin degradation.

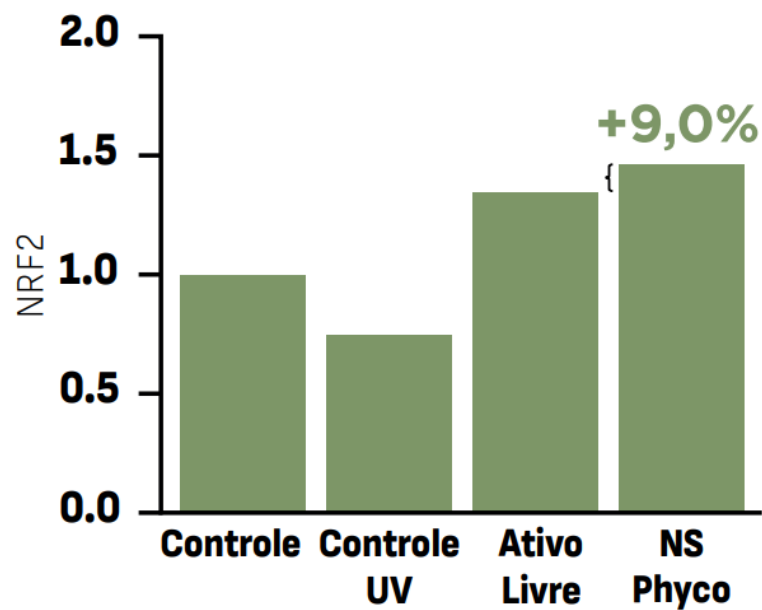
TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Nano Polymeric	Serums, lotions, creams, and aqueous or O/W type emulsion cosmetic products	1 to 3%	Oily excipients with a chemical structure of aromatic rings	Enzymatic (slow release)	4,5 – 9,0	White	Milky	Water dispersible	20 – 35°C at the end of the process



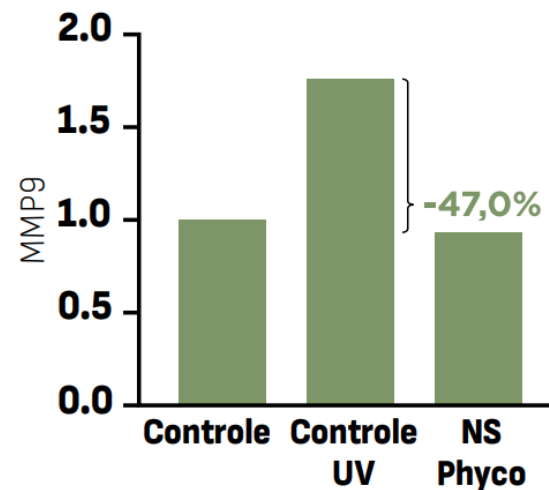
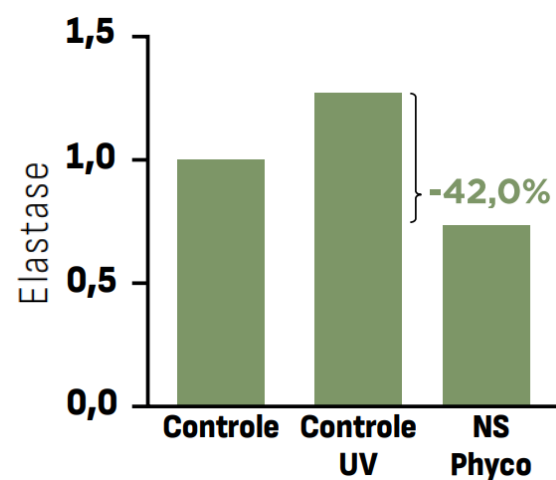
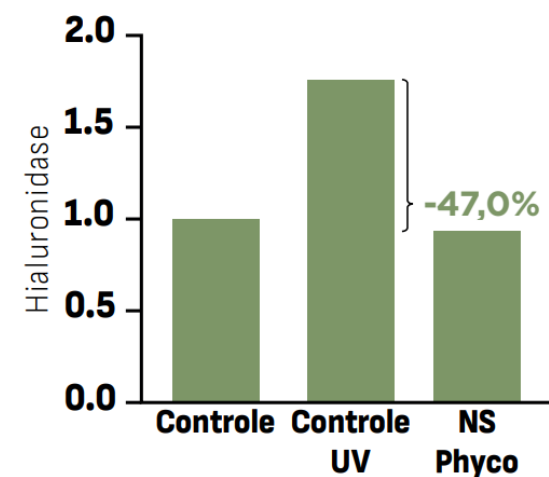
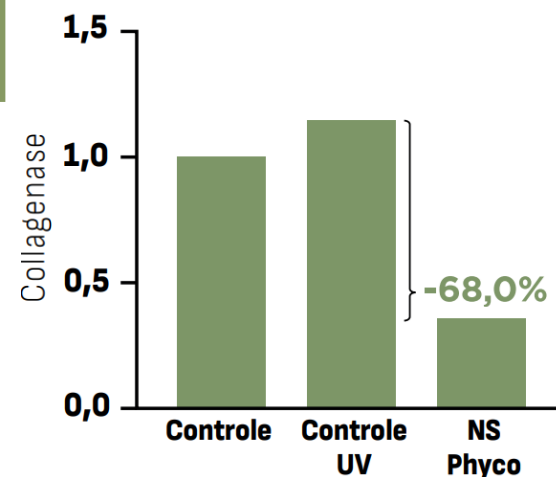
NS
PHYCO
Py

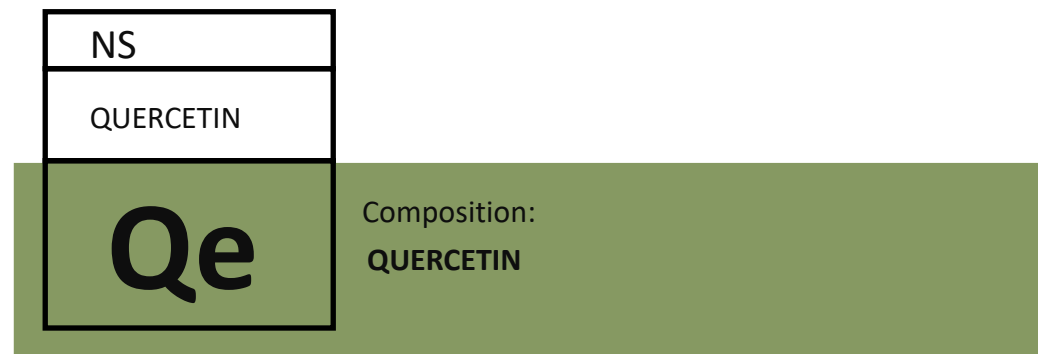
Composition:
RED ALGAE EXTRACT

PROTECTION AGAINST OXIDATIVE EFFECTS CAUSED BY UV RADIATION



PROTECTION AGAINST EXTRACELLULAR MATRIX DEGRADATION





NS Quercetin is the nanostructured form of quercetin, which enhances its antioxidant and anti-inflammatory actions. The nanoparticle technology ensures controlled release, deep penetration, and incorporation into fibroblasts, stimulating collagen and elastin production, as well as improving firmness and elasticity. It also provides protection against free radicals and delivers an anti-ageing effect superior to that of free quercetin.



Increase in proteins related to cellular energy.



Skin firmness through collagen stimulation.



Increase in the skin's antioxidant effect.



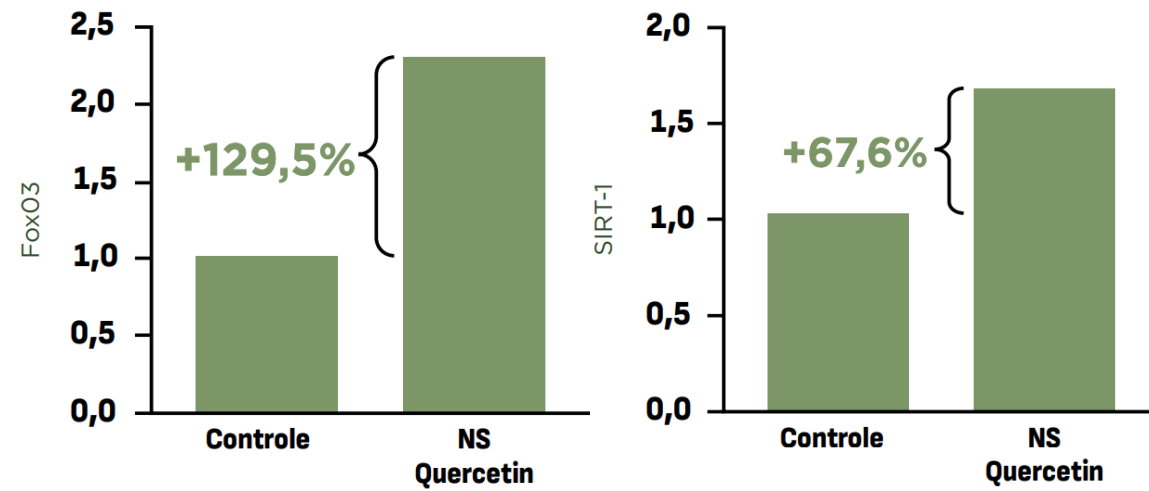
Protection against the degradation of the extracellular matrix.

TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUC-TURE INTO BASES
Nano Polymeric	Serums, lotions, creams, and aqueous or O/W type emulsion cosmetic products	2 to 10%	Oily excipients with a chemical structure of aromatic rings	Enzymatic (slow release)	4,0 - 8,0	Slightly yellowish	Milky	Water dispersible	20 – 35°C at the end of the process

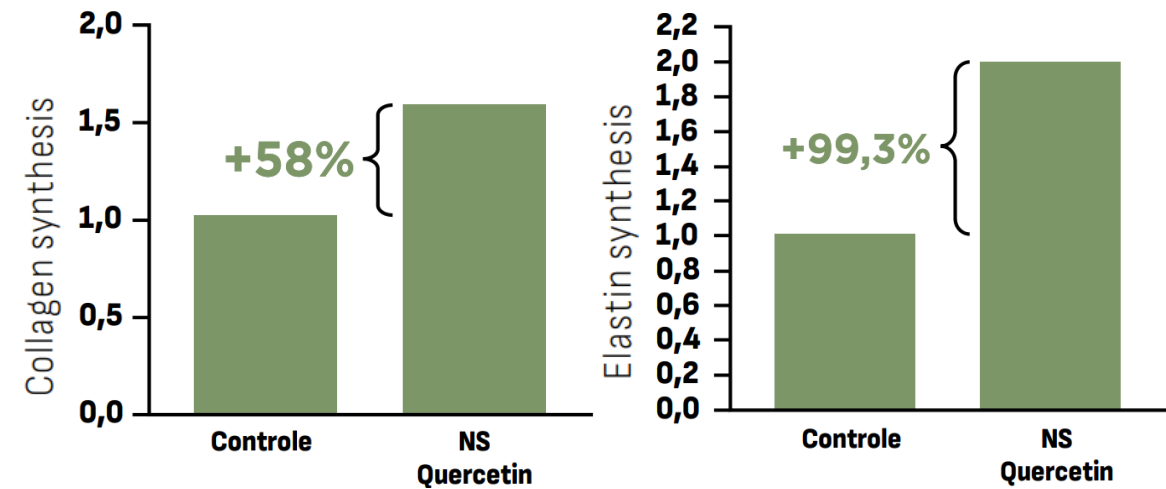


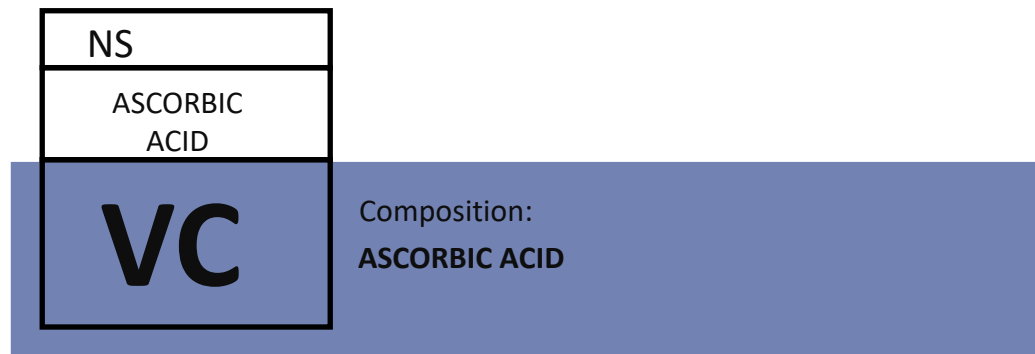
NS
QUERCETIN
Qe Composition: QUERCETIN

PROTECTION AGAINST THE EFFECTS OF PHOTOAGING



SKIN FIRMNESS





NS Ascorbic Acid, also known as Vitamin C, is involved in anti-ageing skin processes, acting directly in the synthesis of collagen and elastin. In addition to being a potent antioxidant, it functions as a brightening agent in the treatment of hyperpigmentation, providing an excellent skin tone evening effect. NS Ascorbic Acid delivers greater efficacy compared to the active ingredient in its conventional form due to higher penetrability and protection against premature degradation and oxidation.



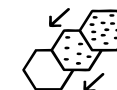
Protection against the oxidative effects of **UV radiation**.



Protection against the effects of **photoaging**.



Stimulation of collagen and elastin synthesis.



Reduction of **hyperpigmentation**.



Skin firmness through **collagen stimulation**.



Increase in **cellular longevity**.

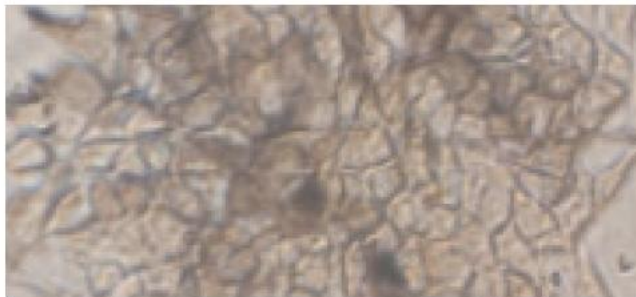
TECNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Liposome	Serums, lotions, creams, and aqueous or O/W type emulsion cosmetic products	1 to 10%	Oily excipients with a chemical structure of aromatic rings	Enzymatic (slow release)	2,0 – 7,0	Whitish – Slightly yellowish	Milky	Water dispersible	20 – 35°C at the end of the process



NS
ASCORBIC ACID
VC

Composition:
ASCORBIC ACID

REDUCTION OF HYPERPIGMENTATION

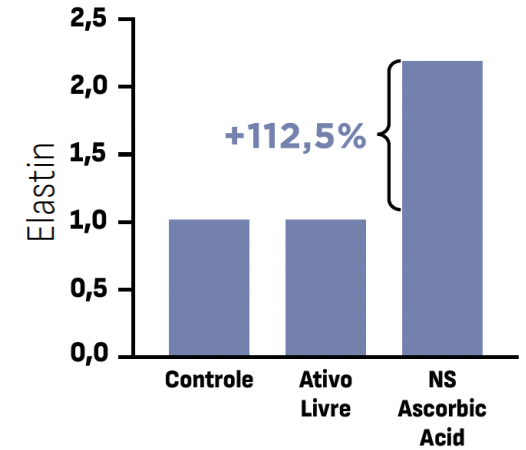
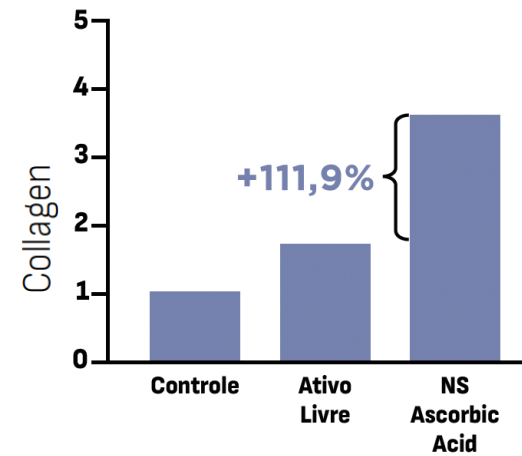


Control

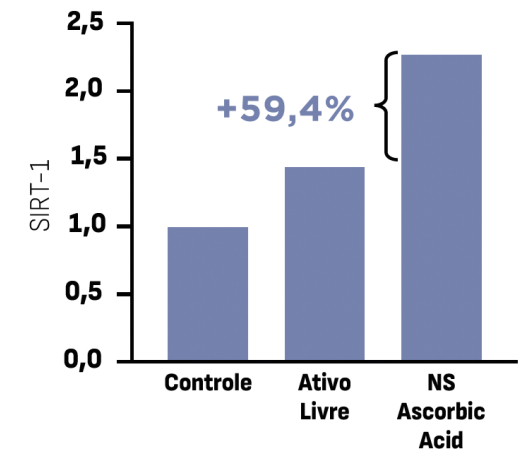
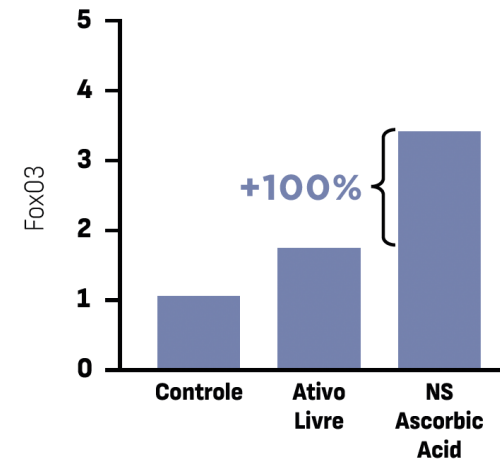


NS Ascorbic Acid

SKIN FIRMNESS



PROTECTION AGAINST THE EFFECTS OF PHOTOAGING





NS

HYALURONIC ACID

HA

Composition:
HYALURONIC ACID

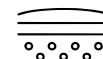
NS Hyaluronic Acid is a prominent cosmetic active ingredient due to its exceptional hydrating properties, rejuvenating the skin by attracting water to the intercellular space. It improves skin firmness, combats sagging, reduces wrinkles, and provides anti-ageing benefits, leaving the skin softer and smoother from the surface to the deeper layers. As a nanoparticle, it ensures superior hydration, adhering to the skin during application and outperforming its conventional form.



Increase in **skin hydration**.



Anti-wrinkle action.



Skin plumping effect.

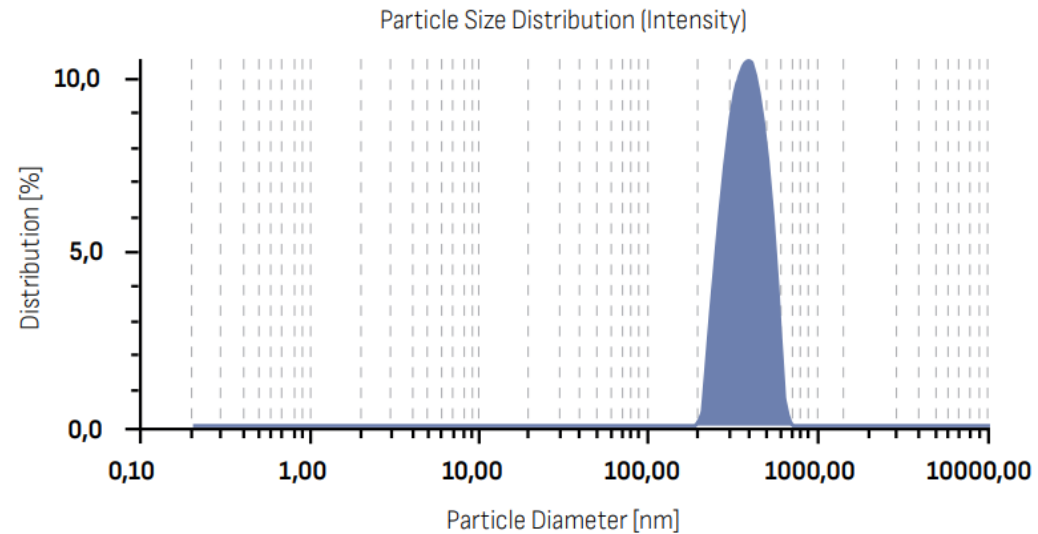
TECNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Nanoemulsion	Hydrophilic gels, serums, lotions, creams, aqueous cosmetic products, and O/W emulsion-type products.	1 to 10%	Products with high surfactant content, as well as highly oily bases and bases with high salt concentration.	For skin adherence, during product application	4,0 – 7,0	White	Milky	Water dispersible	20 – 35°C at the end of the process



NS
HYALURONIC ACID
HA

Composition:
HYALURONIC ACID

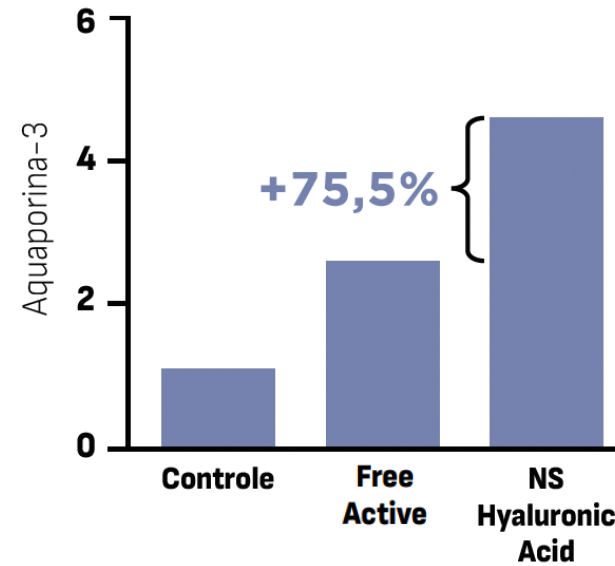
PHYSICOCHEMICAL PROPERTIES



Hydrodynamic
Diameter D50: **200 - 600 nm**

Particle
Analyzer: **Litesizer 500**

HYDRATION



The solutions containing the control groups and samples were applied to the surface of the skin model every 2 days for 14 consecutive days, and then the procedure for mRNA extraction was performed. The experiments were conducted in triplicate for each group.



NS

SALICYLIC ACID

SA

Composition:
SALICYLIC ACID

NS Salicylic Acid effectively treats uneven skin by breaking down keratin, reducing scars and roughness, and improving collagen synthesis for firmer skin. It also regulates sebum and provides anti-inflammatory benefits, making it ideal for oily and acne-prone skin. The ingredient enhances this action with superior bioadhesion, ensuring deep and efficient penetration for targeted anti-inflammatory effects.



Reduction of oiliness.



Anti-inflammatory properties.



Soothing effect on the skin.

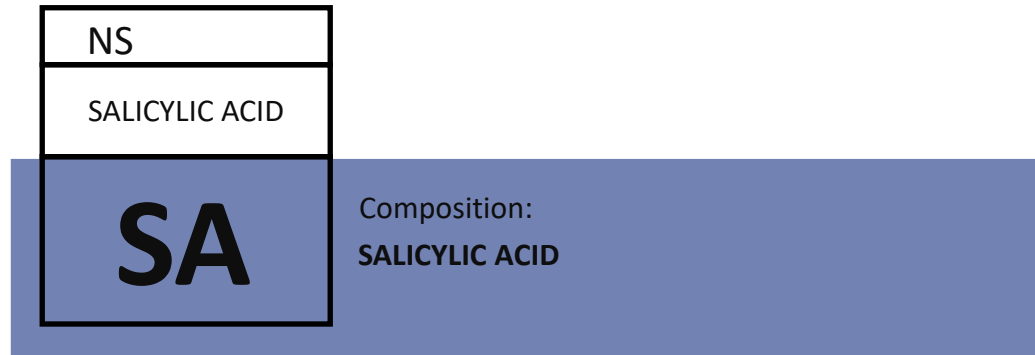


Stimulation of cell renewal.

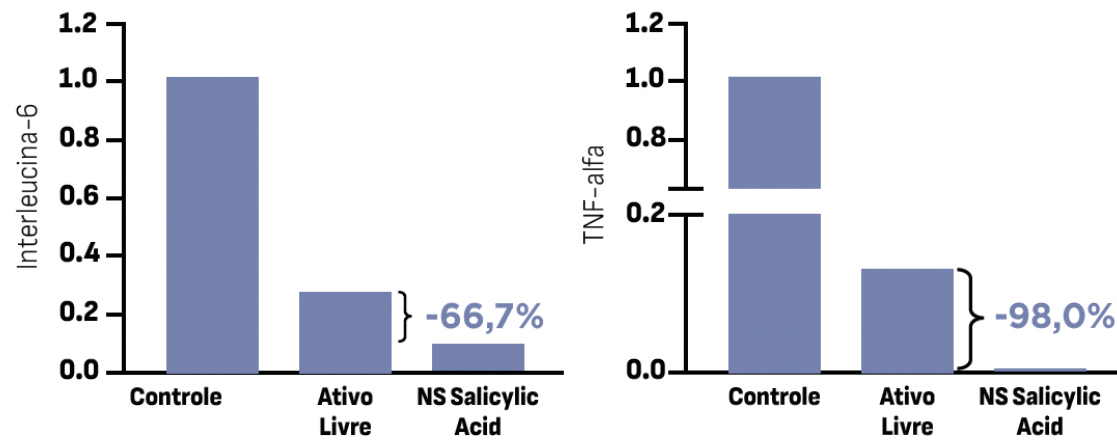


Reduction of hyperkeratinisation.

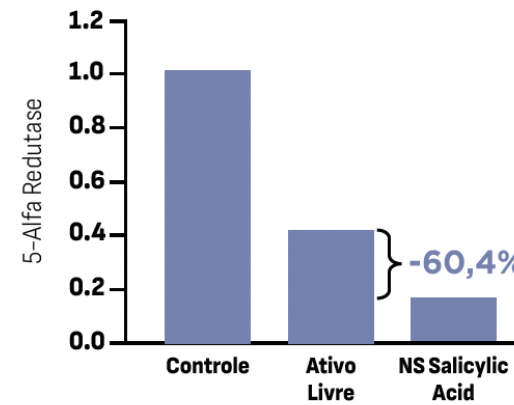
TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Nano Emulsion	Hydrophilic gels, serums, lotions, creams, aqueous cosmetic products, and O/W emulsions.	2 to 10%	Products with high surfactant content, as well as highly oily bases and bases with a high concentration of salts.	Enzymatic (slow release)	3,0 – 9,0	White	Milky	Water dispersible	20 – 35°C at the end of the process



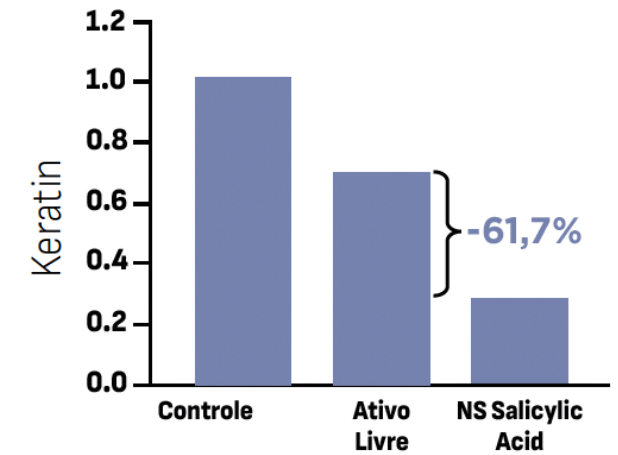
DERMOCALMING EFFECT



REDUCTION OF SKIN OILINESS



REDUCES HYPERKERATINIZATION





NS
TRANEXAMIC ACID
TA

Composition:
TRANEXAMIC ACID



Anti-inflammatory
properties.



Reduction of melanin
production.



Soothing effect on the
skin.



Inhibition of tyrosinase
activity.

Widely recognised for its brightening properties, it acts as an ally against hyperpigmentation. By reducing melanin levels and inhibiting the activity of tyrosinase, a key enzyme in the skin pigmentation process, it presents an effective solution for treating dark spots. It also controls the synthesis of arachidonic acid and prostaglandins, contributing to the reduction of inflammation and redness, providing a more even skin tone and diminishing areas of hyperpigmentation.

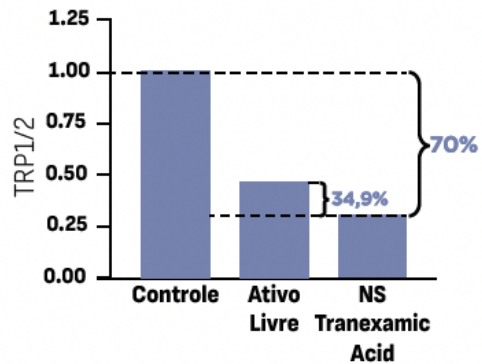
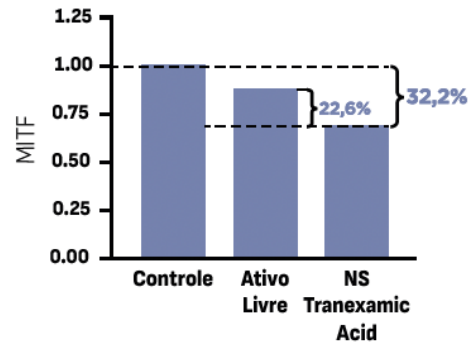
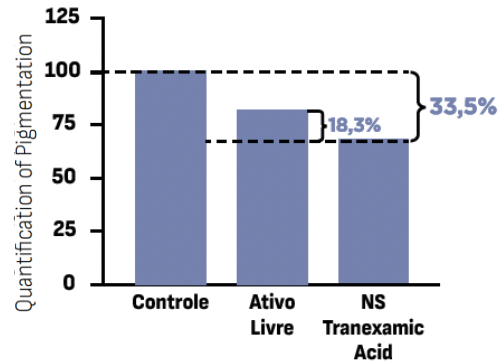
TECHNOLOGY	APPLICATION	% OF SUGGEST ED USE	INCOMPA- TIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTU- RE INTO BASES
Liposome	Hydrophilic gels, serums, lotions, creams, aqueous cosmetic products, and O/W type emulsions with low lipid content.	1 to 3%	Products with a high content of surfactants and/or lipids.	Enzymatic (slow release)	4,0 – 9,0	Slightly yellowish	Milky	Water dispersible	20 – 35°C at the end of the process



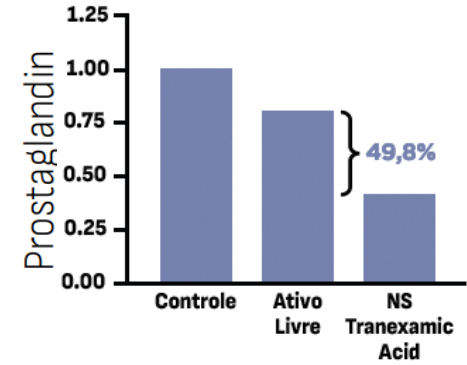
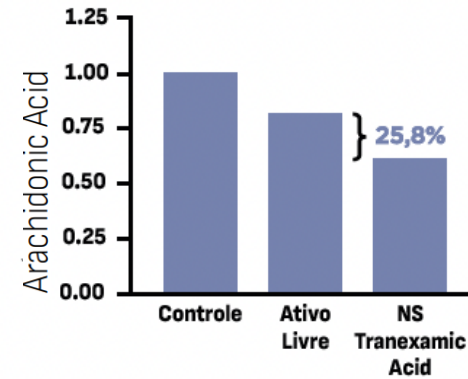
NS
TRANEXAMIC ACID
TA

Composition:
TRANEXAMIC ACID

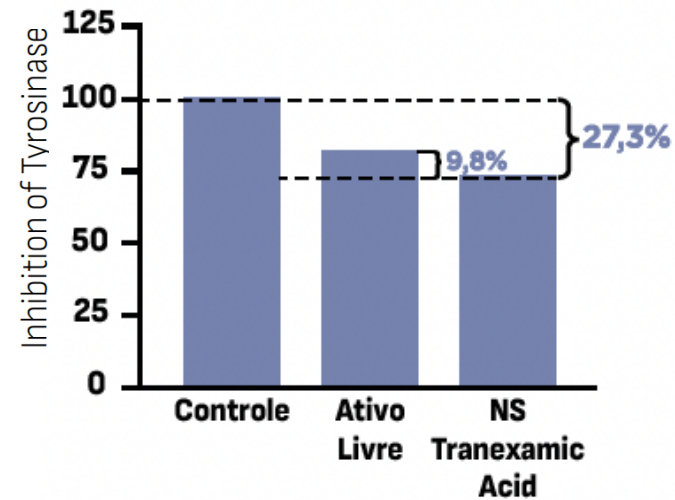
BRIGHTENING EFFECT



ANTI-INFLAMMATORY ACTION



INHIBITION OF TYROSINASE ENZYME





NS

RESVERATROL

RV

Composition:
RESVERATROL

NS Resveratrol combats natural oxidative stress and rejuvenates the skin by activating sirtuins, proteins that regulate ageing. Its antioxidant properties firm the skin, combat sagging, reduce wrinkles, and brighten dark spots. NS Resveratrol provides greater efficacy than its free form due to improved penetration and protection against premature degradation, resulting in a more efficient anti-ageing effect.



Protection against the oxidative effects of UV radiation.



Stimulation of elastin synthesis.



Reduction of pigmentation.



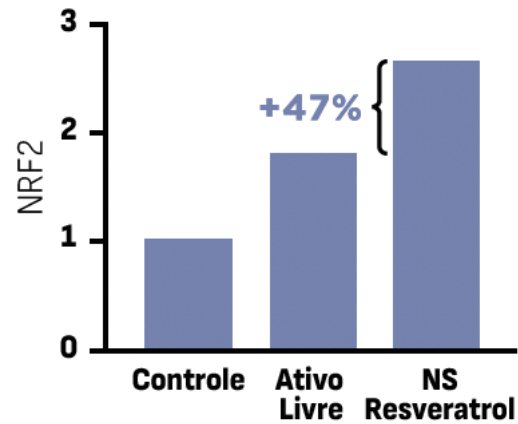
Antioxidant action.

TECNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Nano Polymeric	Serums, lotions, creams, and aqueous or O/W type emulsion cosmetic products	1 to 10%	Oily excipients with an aromatic ring chemical structure	Enzymatic (slow release)	4,0 – 8,0	White	Milky	Water dispersible	20 – 35°C at the end of the process

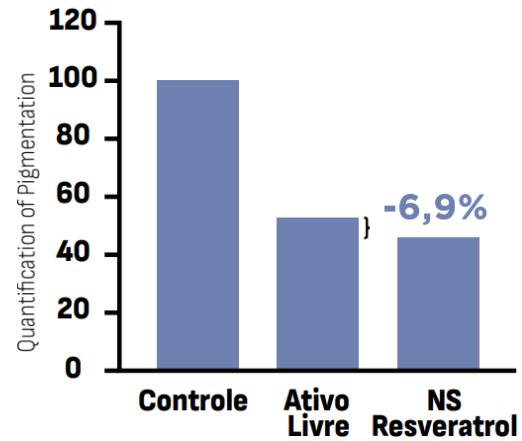


NS
RESVERATROL
RV
Composition: RESVERATROL

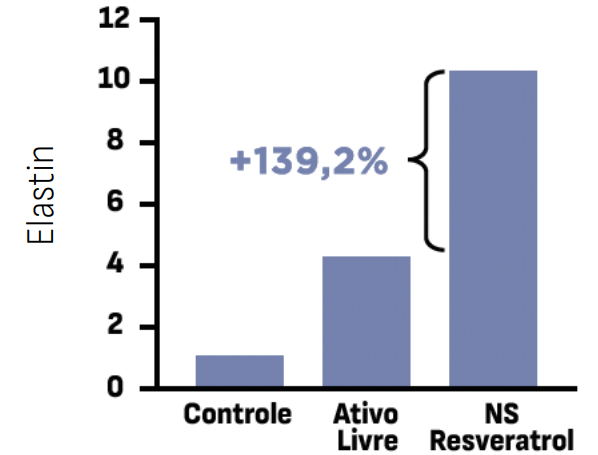
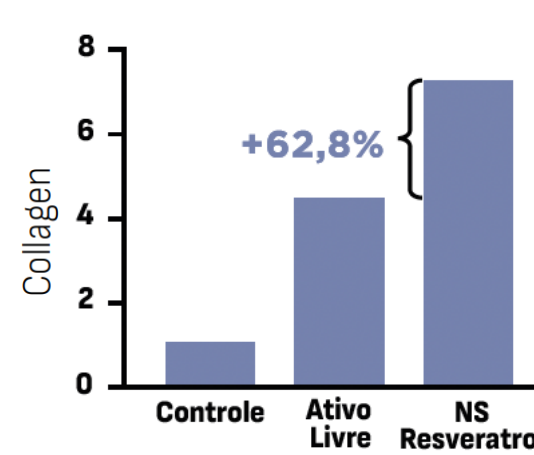
PROTECTION AGAINST UV RADIATION



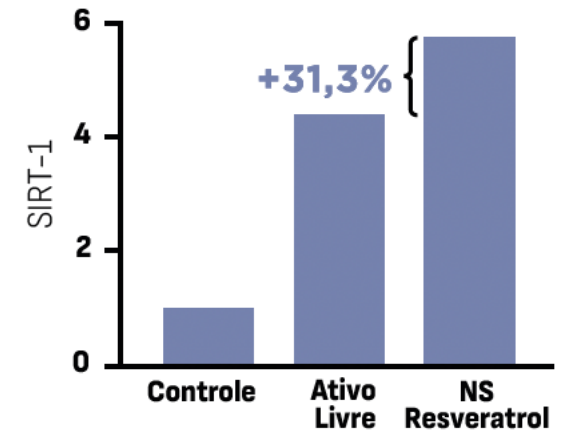
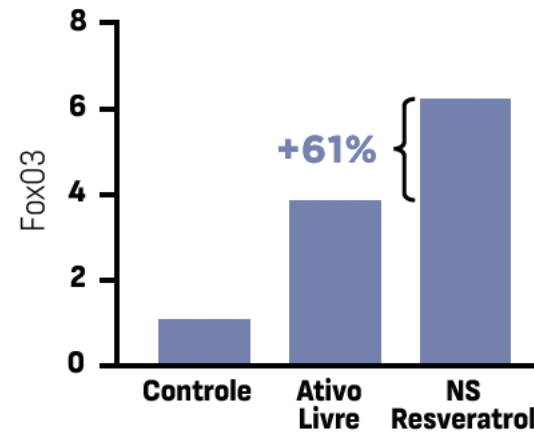
LIGHTENING EFFECT

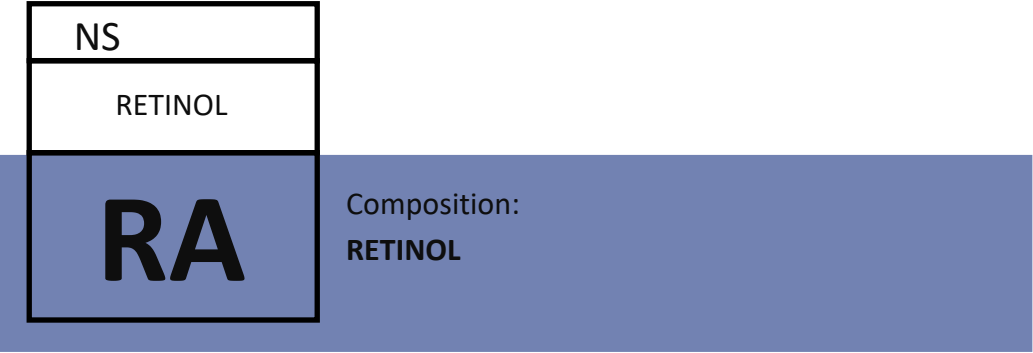


SKIN FIRMNESS



PROTECTION AGAINST THE EFFECTS OF PHOTOAGING





Retinol is widely recognised as one of the most effective active ingredients against skin ageing, acting on the epidermis and, to a lesser extent, the dermis to strengthen the skin’s protective function, stimulate collagen and elastin synthesis, reduce collagen degradation, and even out pigmentation. Being unstable and lipophilic, its penetration is limited; however, encapsulation in nanoparticles protects the active ingredient, increases its solubility, improves penetration, and ensures controlled release, enhancing both efficacy and tolerability, including in sensitive skin.



Protection against the oxidative effects of UV radiation.



Stimulation of cell renewal.

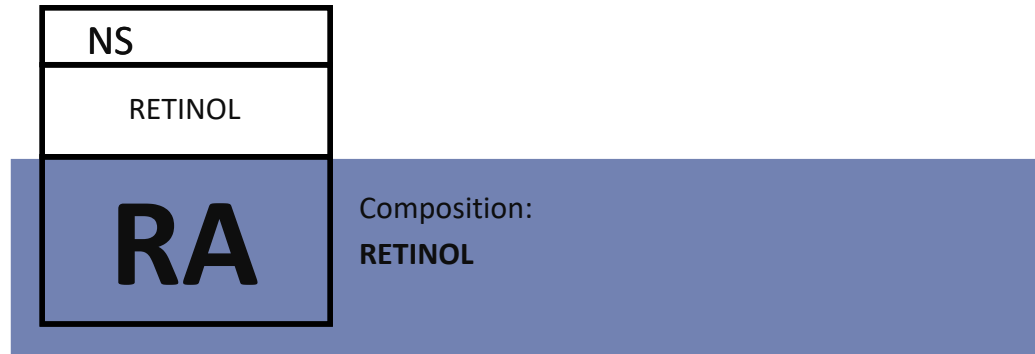


Stimulation of collagen synthesis.

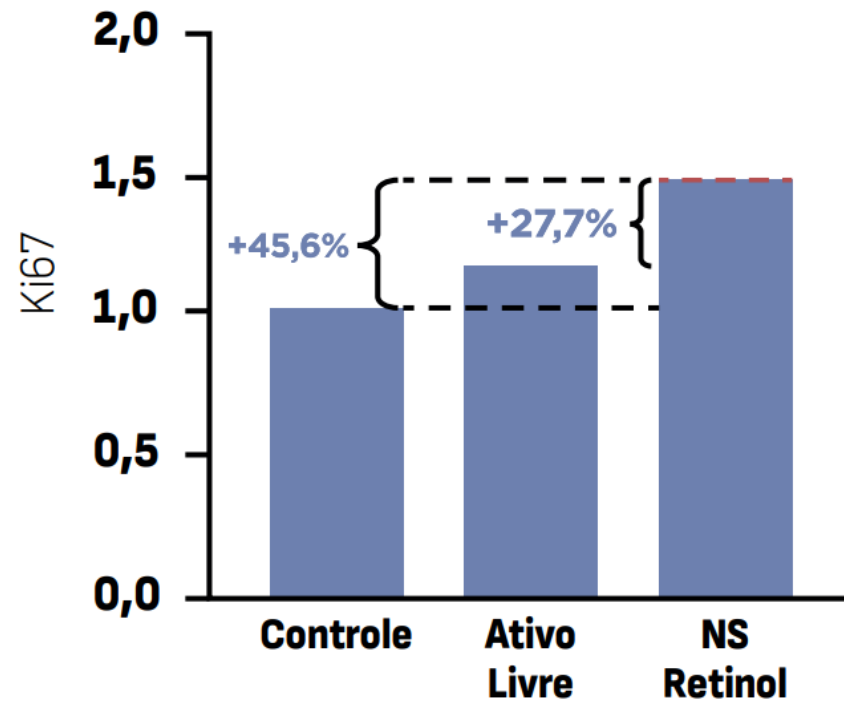


Inhibition of tyrosinase activity.

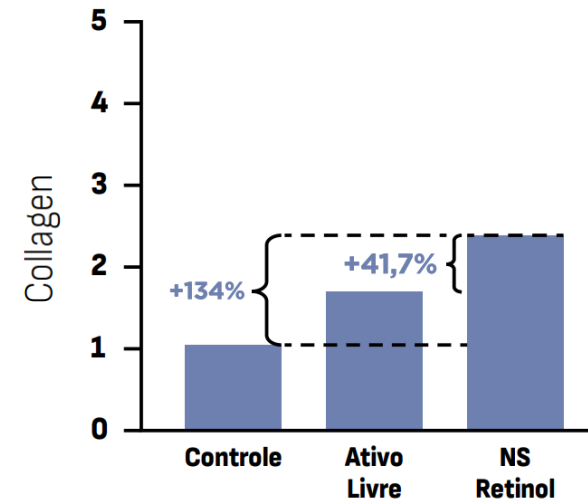
TECNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANIS	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Nano Polymeric	Serums, lotions, creams, and aqueous or O/W type emulsion cosmetic products	0,3 to 2%	Oily excipients with an aromatic ring chemical structure	Enzymatic (slow release)	4,0 – 8,0	Slightly yellowish	Milky	Water dispersible	20 – 35°C at the end of the process



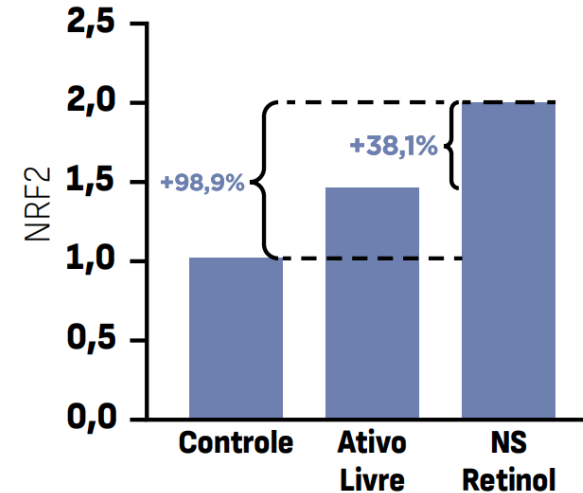
STIMULATION OF CELL RENEWAL



SKIN FIRMNESS



PROTECTION AGAINST OXIDATIVE EFFECTS CAUSED BY RADIATION





NS

COENZYME Q10

Q10

Composition:
COENZYME Q10

NS Coenzyme Q10 is an advanced nanostructured form developed to restore the skin’s energy and vitality. Essential in cellular metabolism, its natural production decreases with ageing, directly affecting skin regeneration and defence against free radicals. Controlled and targeted release ensures action in the deeper layers of the skin, stimulating fibroblasts, enhancing cutaneous immunity, and promoting a firmer, more even, and rejuvenated appearance.



Protection against the oxidative effects of UV radiation.



Stimulation of cell renewal.



Stimulation of collagen and elastin synthesis.



Increase in cellular energy.



Rejuvenation through wrinkle reduction.

TECNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANIS	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Nano Polymeric	Serums, lotions, creams, and aqueous or O/W type emulsion cosmetic products	1 to 6%	Oily excipients with a chemical structure of aromatic rings	Enzymatic (slow release)	4,0 – 8,0	White	Milky	Water dispersible	20 – 35°C at the end of the process

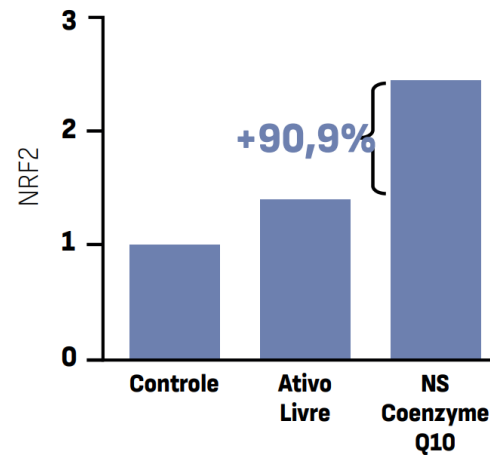


NS
COENZYME Q10

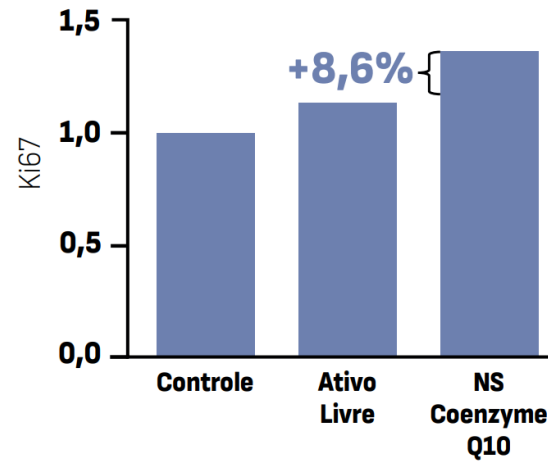
Q10

Composition:
COENZYME Q10

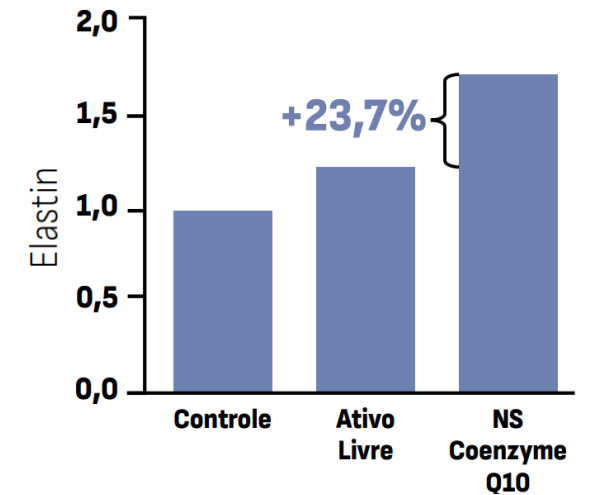
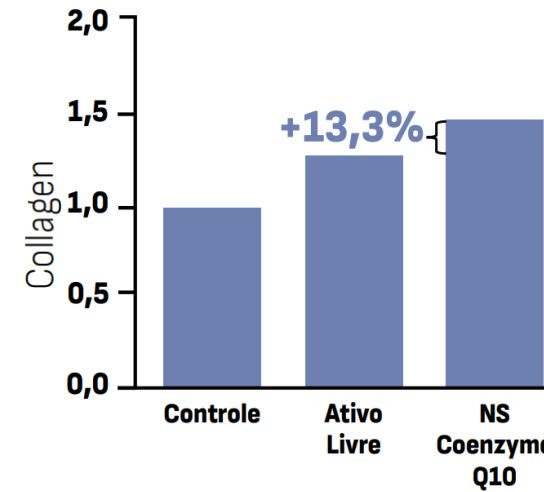
PROTECTION AGAINST OXIDATIVE EFFECTS CAUSED BY UV RADIATION



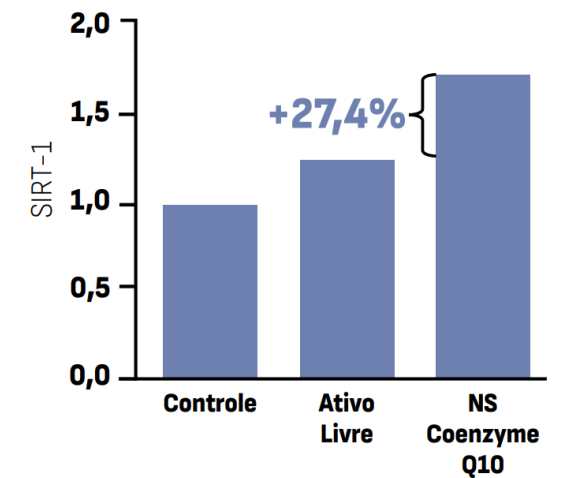
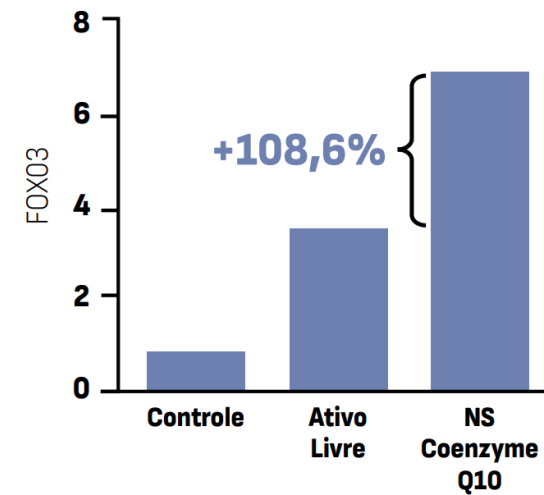
CELLULAR RENEWAL



SKIN FIRMNESS



PROTECTION AGAINST THE EFFECTS OF PHOTOAGING





NS

RETINOL PALMITATE

RP

Composition:
RETINOL PALMITATE

NS Retinol is a nanoencapsulated form of retinyl palmitate that ensures greater stability, penetration, and efficacy of the active ingredient. Converted into retinol in the deeper layers of the skin, it stimulates cell renewal, collagen and elastin synthesis, and promotes firmness and evenness. Its controlled release reduces irritation and improves tolerability in sensitive skin, providing a long-lasting rejuvenating and brightening effect.



Protection against the oxidative effects of UV radiation.



Stimulation of collagen synthesis.



Stimulation of cell renewal.



Inhibition of tyrosinase activity.

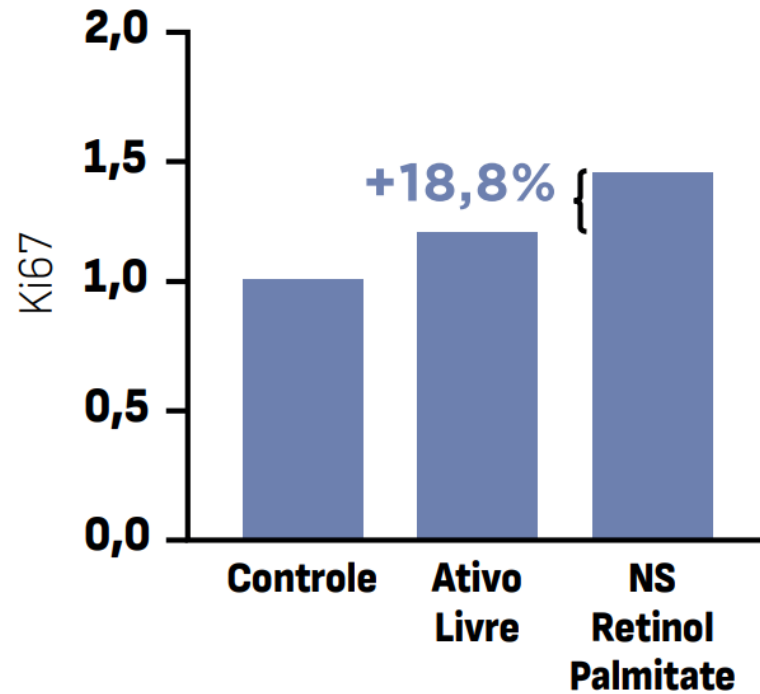
TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUC-TURE INTO BASES
Nano Polymeric	Serums, lotions, creams, and aqueous or O/W type emulsion cosmetic products	0,5 to 2%	Oily excipients with an aromatic ring chemical structure	Enzymatic (slow release)	4,0 – 8,0	Slightly yellowish.	Milky	Water dispersible	20 – 35°C at the end of the process



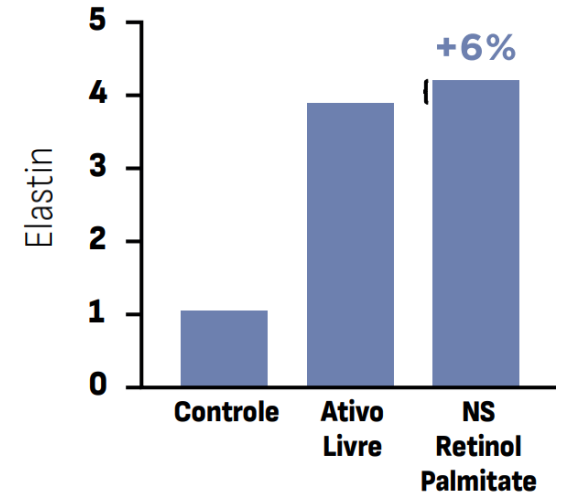
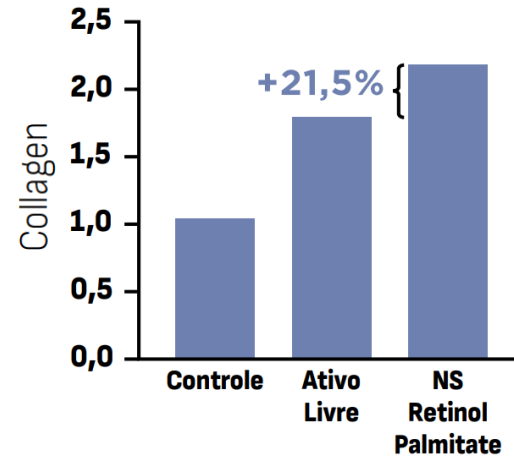
NS
RETINOL PALMITATE
RP

Composition:
RETINOL PALMITATE

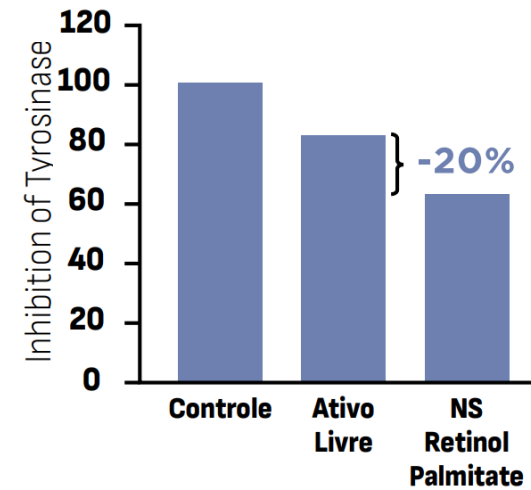
STIMULATION OF CELL RENEWAL



SKIN FIRMNESS



INHIBITS THE ACTION OF TYROSINASE





NS

TOCOPHEROL ACETATE

Tc

Composition:
TOCOPHEROL ACETATE

NS Tocopherol Acetate is a nanoencapsulated form of Vitamin E that enhances its antioxidant and dermocalming action, protecting the skin against damage caused by free radicals and reducing inflammatory mediators. The nanoparticulate technology increases the solubility, stability, and penetration of the active ingredient, allowing it to reach the deeper layers of the skin. Its controlled enzymatic release ensures prolonged protection, promoting stronger, balanced, and healthier skin.



Protection against the oxidative effects of **UV radiation**.



Increase in cellular energy.



Simulation of collagen and elastin synthesis.



Anti-wrinkle action.



Stimulation of cell renewal.



Soothing effect on the skin and **post-sun calming**.

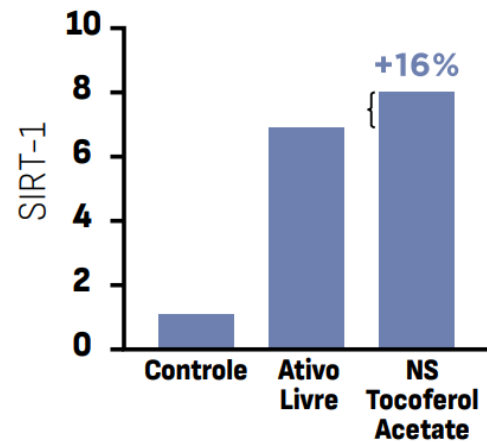
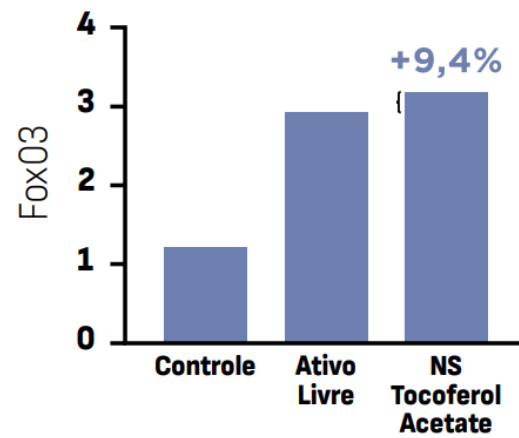
TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Nano Polymeric	Serums, lotions, creams, and aqueous or O/W emulsion-type cosmetic products.	1 to 6%	Oily excipients with aromatic rings in their chemical structure.	Enzymatic (slow release)	4,0 – 8,0	White	Milky	Water dispersible	20 – 35°C at the end of the process



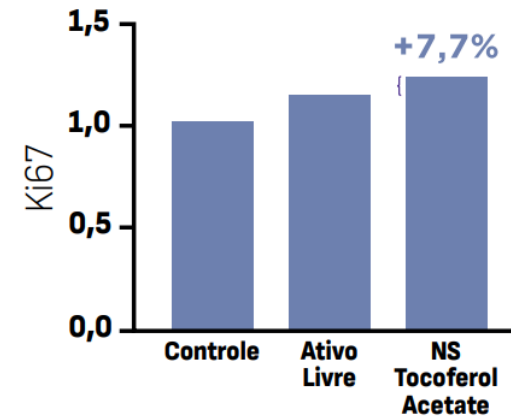
NS
TOCOPHEROL ACETATE
Tc

Composition:
TOCOPHEROL ACETATE

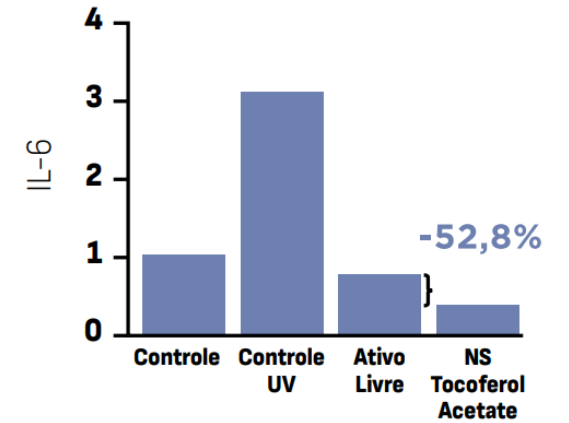
PROTECTION AGAINST THE EFFECTS OF PHOTOAGING



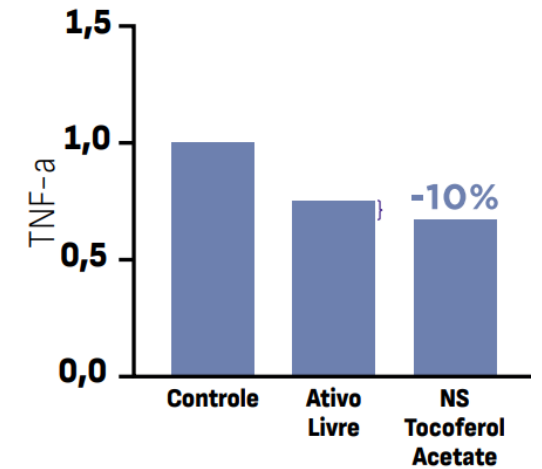
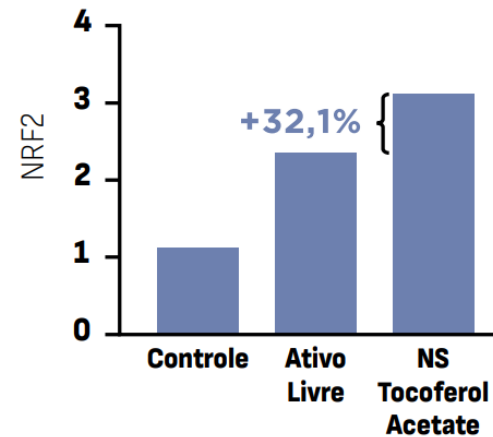
STIMULATION OF CELL RENEWAL



DERMOCALMING EFFECT



PROTECTION AGAINST OXIDATIVE EFFECTS CAUSED BY UV RADIATION

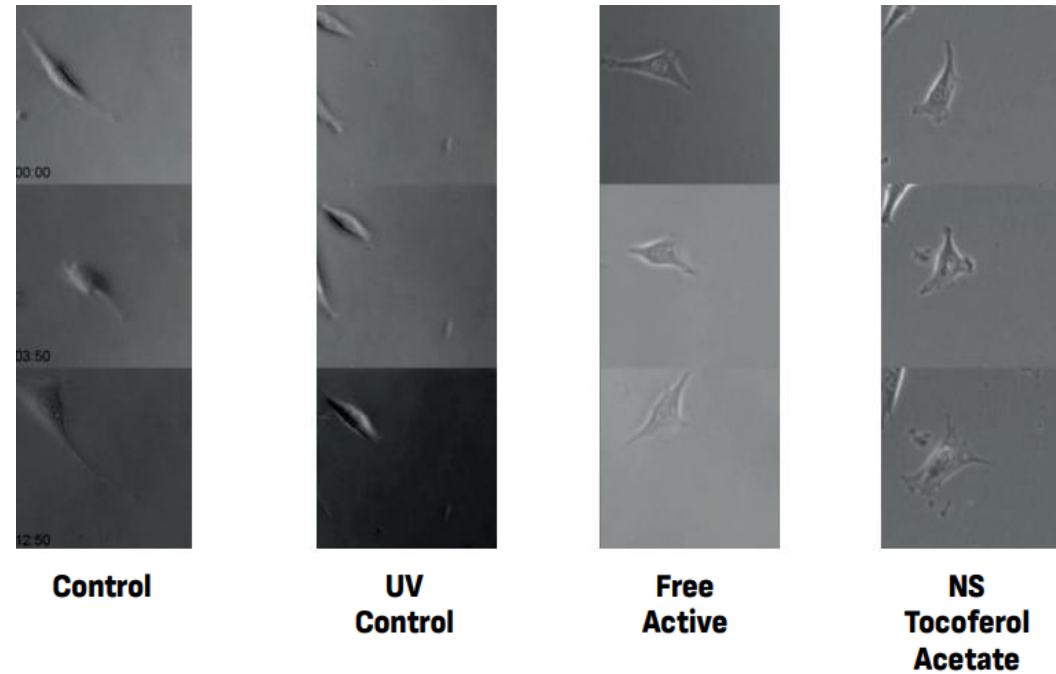
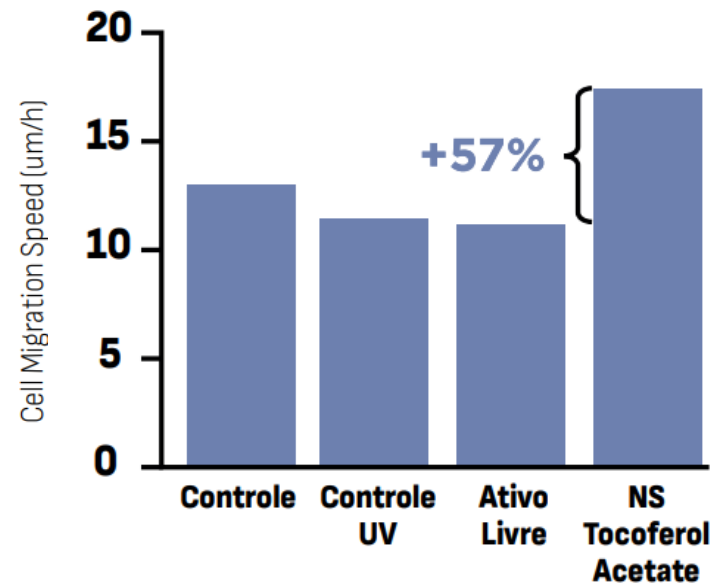




NS
TOCOPHEROL ACETATE
Tc

Composition:
TOCOPHEROL ACETATE

IMPROVEMENT IN CELLULAR METABOLISM AND ENERGY



The solutions containing the control groups and samples were applied to the surface of the skin model every 2 days for 7 consecutive days, and then the procedure for mRNA extraction was performed. The experiments were conducted in triplicate for each group.



NS

NIACINAMIDE

B3

Composition:
NIACINAMIDE

NS Niacinamide is a versatile ingredient that acts to even out and restore the skin, improving its texture and tone, while exhibiting a dermocalming and highly effective anti-inflammatory effect. It also helps reduce oxidative stress, strengthening the skin barrier and contributing to protection against the effects of photoageing, resulting in healthy and long-lasting skin.



Stimulation of ceramide synthesis.



Reduction of hyperpigmentation.



Protection of the skin barrier.



Soothing effect on the skin.



Stimulation of renewal and increase of cellular energy.



Protection against the degradation of the extracellular matrix.

TECHNOLOGY	APPLICATION	% OF SUGGESTED USE	INCOMPATIBILITIES	RELEASE MECHANISM	PH	COLOR	APPEARANCE	SOLUBILITY	INCORPORATION OF THE NANOSTRUCTURE INTO BASES
Liposome	Serums, lotions, creams, and aqueous or O/W type emulsion cosmetic products	1 to 6%	Products with a high content of surfactants, as well as W/O emulsions.	Enzymatic (slow release)	4,0 – 9,0	Slightly yellowish.	Translucent	Water dispersible	20 – 35°C at the end of the process



NS
NIACINAMIDE
B3

Composition:
NIACINAMIDE

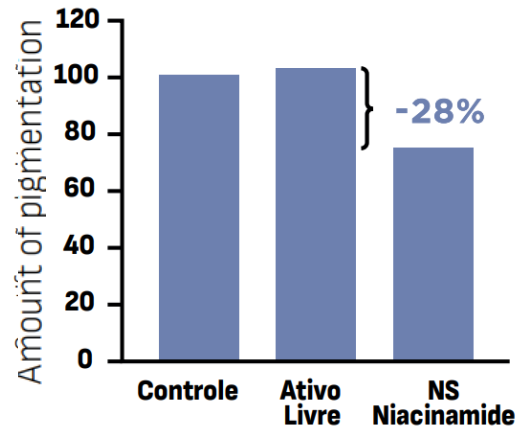
Controle



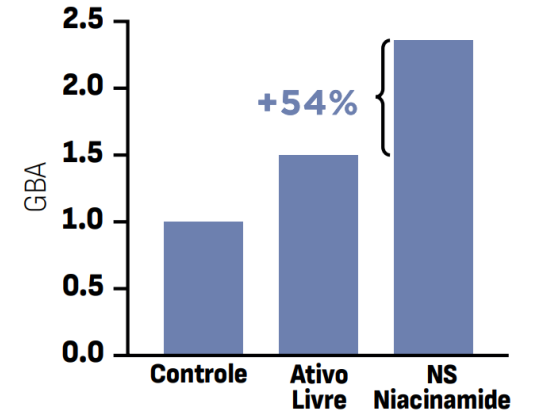
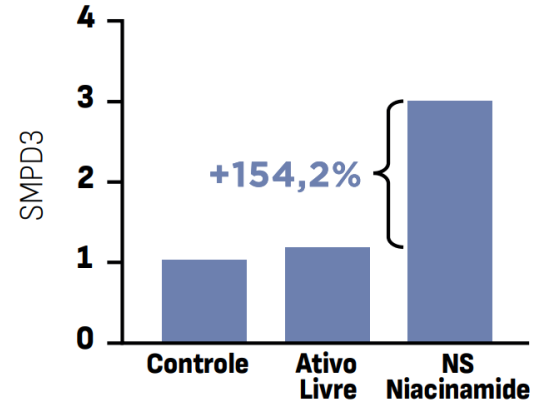
NS Niacinamide



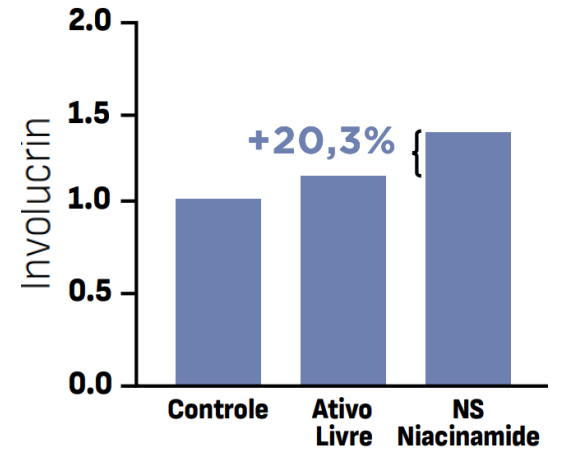
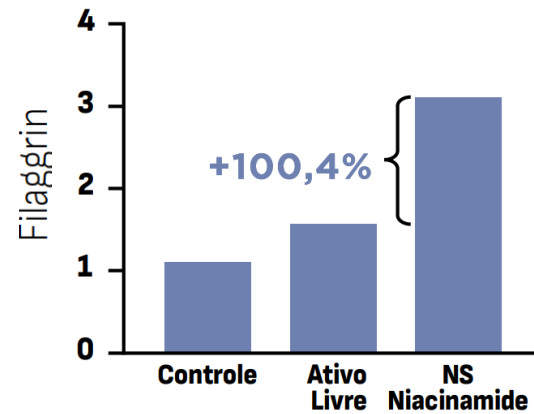
LIGHTENING EFFECT



STIMULUS FOR CERAMIDES SYNTHESIS



PROTECTION OF THE SKIN BARRIER





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