



nano eyelashes

Growth of Eyelashes and Eyebrows

Active ingredient: Jojoba Extract.

Nano Eyelashes is an encapsulated active ingredient in lipid particles with a diameter larger than 200nm. Encapsulation through the technology developed by Nanovetores allows the stabilization of sensitive components, therefore, complex of being formulated in its free form. The active ingredient acts synergistically in hair follicles and hair shaft, enabling the hair growth and regeneration in a healthy way. Its usage ensures the growth of eyelashes and eyebrows, as well as it grants a healthy hair and moisturized skin.



Features

Aspect: Clear amber liquid.
Usage Concentration: 1.0% to 10%
pH stability: 2.0 to 7.0
Solubility: Water Dispersible
Particle: Biopolymer
Release Trigger: Enzyme



Benefits

- Strengthening of eyebrows and eyelashes
- Activation of hair bulbs
- Growth of eyebrows and eyelashes



Usage

Creams, lotions, post-depilatory products, soaps.

Description

Nano Eyelashes is a jojoba extract-based product, encapsulated in biopolymer particles that promotes the activation of hair bulbs and hair strengthening.

Jojoba is a plant native to the deserts of southwestern United States and north of Mexico. The Native Americans discovered the importance and versatility of jojoba. Its oil was used in the treatment of hair and skin disorders. Jojoba has properties to create ideal conditions for the skin, making new hair follicles grow and regenerate in a healthy way, that's why it contributes in the growth of eyelashes and eyebrows. Moreover, Jojoba is a natural moisturizer enabling more resistant, nourished and longer lashes and has penetrating and healing qualities, helping to reduce hair loss as it "cleans" the hair bulb, protecting and promoting the birth and growth of new shafts of hair, and this property is reinforced by the encapsulation of the active ingredient (RANZATO; MARTINOTTI; BURLANDO, 2011).

Nano Eyelashes is indicated mainly for strengthening and stimulus to the growth of eyebrows and eyelashes.

Regulatory Information

Physical-chemical Information

| INCI NAME | CAS NUMBER | EINECS NUMBER |
|-----------------------------------|------------|---------------|
| AQUA | 7732-18-5 | 231-791-2 |
| SIMMONDSIA CHINENSIS SEED EXTRACT | 90045-98-0 | 289-964-3 |
| POLYSORBATE 20 | 9005-64-5 | - |
| HYDROXIPROPYL GUAR | 68442-94-4 | 270-497-9 |
| SODIUM BENZOATE | 532-32-1 | 208-534-8 |
| POTASSIUM SORBATE | 24634-61-5 | 246-376-1 |

| | |
|-------------------|-------------------|
| PHYSICAL STATE | LIQUID |
| FORM | TRANSLUCID |
| COLOR | AMBER |
| ODOR | CHARACTERISTIC |
| pH | 4.0 TO 6.0 |
| SOLUBILITY | WATER DISPERSIBLE |
| RELATIVE DENSITY | 0.9 TO 1.1 g/ML |
| CHEMICAL IDENTITY | ORGANIC |
| CHARACTERIZATION | BLEND |

*As it contains natural active ingredients, the product may change in color and odor.

Approved by International Regulations:



China - IECIC



Europe - EC Cosing



USA - CIR



Australia - AICS Inventor



Brazil - Anvisa



STORAGE:

KEEP AT TEMPERATURE BETWEEN 20 AND 25 °C



COMPATIBILITY:

NONIONIC VEHICLES



INCOMPATIBILITY:

ANIONIC POLYMERS, ETHANOL AND OTHER ORGANIC SOLVENTS

References

1 - BANNO, N. et al. Anti-inflammatory activities of the triterpene acids from the resin of *Boswellia carteri*. *Journal of Ethnopharmacology*, v. 107, n. 2, p. 249-253, 2006.

2 - CHEN, W.; VILJOEN, A.M. Geraniol - A review of a commercially important fragrance material. *South African Journal of Botany*, v. 76, p. 643-651, 2010.

3 - LAWRENCE, K. et al. Antioxidant activity of Palmarosa essential oil (*Cymbopogon martinii*) grown in north Indian plains. *Asian Pacific Journal of Tropical Biomedicine*, v. 2, n. 2, p. S888-S891, 2012.

Effectiveness Test

Nano Eyelashes has been tested clinically regarding its safety and efficacy in the growth of eyebrows in an accredited laboratory.

Evaluated product: Serum with Nano Eyelashes 10%

Evaluation time: 28 and 56 days in vivo evaluation under normal product usage conditions.

Initial



After 28 days

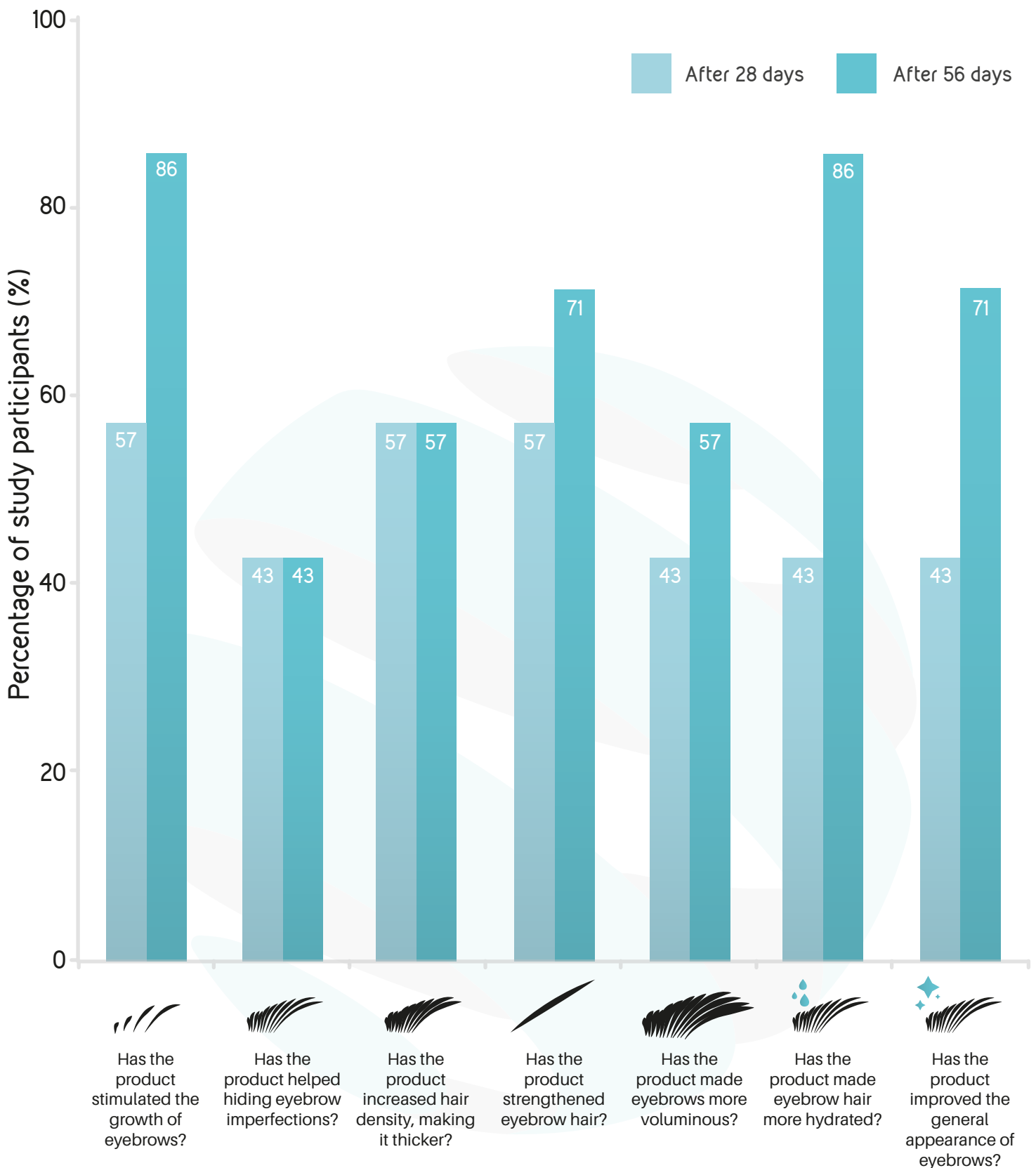


After 56 days



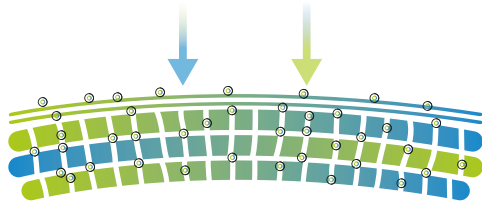
Right side: control

Left side: product



Conclusion: After 28 days of investigative use of NANO EYELASHES product sample, there has been a significant increase in eyebrow hair growth by up to 38.2%, when compared to the untreated control area. After 56 days of investigative use of NANO EYELASHES product sample there has been a significant increase in eyebrow hair growth by up to 47.6%, when compared to the untreated control area.

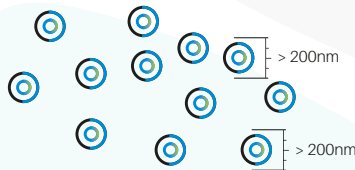
Nanovetores Encapsulation Technology



Multifunctional Biopolymetric Particles of high permeation that promote skin firmness.



Active Ingredient Protection against oxidation resulted from interaction with external environment and other components of the cosmetic formulation.



Monodispersity, that ensures control of the particle size, providing adequate permeation to its proposed action.



Secure particles larger than 200nm, biocompatible and biodegradable.



Specific Enzymatic Release Trigger, the enzymes present in the skin promote particle decay, releasing the active ingredient on its target area.

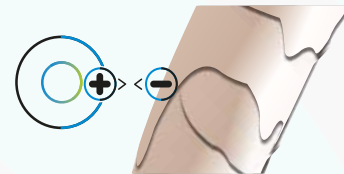


Active ingredient deposition when applied freely



Greater permeation of the active ingredient when encapsulated

Greater Permeation on the contact surface due to the small size of the capsule.



Surface Charge Control of the particle, promoting greater affinity with the contact surface.



Water Base. Active ingredients are manufactured without the use of organic solvents, ensuring safety for users and the environment.

Use Encapsulated Active Ingredients and Ensure:

Stability Improvement

Increased compability in the formulation

Oclusion of odors

Increased skin permeation

Reduced dose

Use of sensitive active ingredients (without refrigeration)

Increased Solubility

Prolonged release

Increased effectiveness