

nano uplift



Lifting Effect and Skin Firmness

Active Ingredients: Hyaluronic acid and Senegal Acacia.

Nano Up Lift is a blend of active ingredients encapsulated in biopolymer particles with particle diameter larger than 200 nm. The encapsulation through the technology developed by Nanovetores allows the stabilization of sensitive components, therefore, complex of being formulated in its free form. The blend consists of Hyaluronic Acid and Senegal Acacia, and due to its natural characteristics, can be used daily, acting as a progressive facial filler.



Features

Aspect: Slightly viscous transparent liquid from colorless to yellow.

Usage Concentration: 0.5 to 10%

pH Stability: 3.0 to 7.0

Solubility: Water Dispersible

Particle: Biopolymer

Trigger: Enzyme



Benefits

- Immediate lifting effect
- Wrinkle filler
- Hydration
- Acts against free radicals protecting the skin
- Increases skin firmness and elasticity



Usage

Masks, functional makeup removers, emulsions in general, primers, BB Cream, gels, gel-cream and serum.

Description

Nano Up Lift consists of hyaluronic acid nanoparticles (low molecular weight - 7,000 Da) covered by polysaccharide linkages derived from Senegal Acacia. This multifunctional active ingredient promotes tensor effect through a filling action boosted by the high-permeation of the encapsulated hyaluronic acid. The Senegal Acacia polysaccharides stimulate fibroblast proliferation and increased synthesis of collagen type I and III, with skin regeneration properties. Nano Up Lift has a high moisturizing power, reduces the roughness of the skin leaving it thinner, increases skin firmness and elasticity and reduces the depth of wrinkles.

Hyaluronic acid is a linear, natural polymer belonging to the class of non-sulfated glycosaminoglycans, and is the major component of the extracellular matrix of the dermis. Extrinsic aging (resulting from the influence of exposure to external/environmental factors) is associated with numerous changes, including the expression of hyaluronic acid and its metabolism enzymes. What can be seen is that, with aging, there is a sharp increase in the expression of low molecular weight hyaluronic acid, and this is related to the significant decrease in enzymes synthesis of this acid (particularly HAS1) and increased expression of hyaluronidases (HYAL1- 3), which causes wrinkles. Hyaluronic acid is one of the most hygroscopic molecules in nature, which provides a high moisturizing capability. It offers antioxidant effect, acting as a free radical-sequestering agent, increasing the protection of the skin regarding UV radiation and contributing to increase tissue repair capacity ⁽¹⁾.

Senegal Acacia is an important natural emulsifier. It is widely used in pharmaceutical preparations, has emollient property and acts as a skin protective agent, with capacity to treat inflamed skin. Furthermore, it is a potent antioxidant and exhibits significant antibacterial activity. Senegal Acacia gum is a natural bioactive compound, combining a strong capacity to activate the mechanisms of skin self-regeneration and good moisturizing properties ^{(3) (4) (5)}.

Nano Up Lift can be used daily, promoting a gradual wrinkles smoothing.

Regulatory Information

INCI NAME	CAS NUMBER
AQUA	7732-18-5
HYALURONIC ACID	9004-61-9
ACACIA SENEGAL GUM EXTRACT	90387-99-8
PHENOXYETHANOL	122-99-6
CAPRYLYL GLYCOL	1117-86-8



STORAGE:
KEEP IN TEMPERATURE BETWEEN 20°C - 25°C



COMPATIBILITY:
CATIONIC AND NON-IONIC VEHICLES.



INCOMPATIBILITY:
ANIONIC VEHICLES,
ETHANOL AND OTHER ORGANIC SOLVENTS.

Physical-Chemical Information

PHYSICAL STATE	LIQUID
FORM	SLIGHTLY VISCOUS TRANSPARENT SUSPENSION
COLOR	COLORLESS TO YELLOW
ODOR	CHARACTERISTIC
pH	3.5 TO 5.5
SOLUBILITY	WATER DISPERSIBLE
RELATIVE DENSITY	0.95 to 1.10 g/ML
CHEMICAL IDENTITY	ORGANIC
CHARACTERIZATION	BLEND

*As it is a suspension, agitate before using.

Approved by International Regulations:



China - IECIC



Europa - EC Cosing



EUA - CIR



Australia - AICS Inventor

References

- 1 - VOLPI, N. et al. Role, metabolism, chemical modifications and applications of hyaluronan. *Curr Med Chem.* 16(14):1718-45, 2009.
- 2 - JEGASOTHY, S. M., ZABOLOTNIAIA, V., & BIELFELDT, S. Efficacy of a new topical nano-hyaluronic acid in humans. *Journal of Clinical and Aesthetic Dermatology*, 7(3), 27-29, 2014.
- 3 - OKORO, S.O.; KAWO, A.H; ARZAI, A.H. Phytochemical screening, antibacterial and toxicological activities of Acacia Sen-egal extracts. *Bayero Journal of Pure and Applied Sciences.* 5(1): 163-170, 2012.
- 4 - MANGAL, S. et al. Antioxidant potential and free radicals scavenging activity by pod extracts of Acacia Senegal wild. *IJPCBS.* 2(4): 500-50, 2012.
- 5 - MAHOMOODALLY, F.M. Traditional Medicines in Africa: An Appraisal of Ten Potent African Medicinal Plants. *Evidence-Based Complementary and Alternative Medicine.* v.13, 14p, 2013.

Effectiveness Test

Nano Up Lift has been clinically tested for its safety and effectiveness in an accredited laboratory.

Evaluated product: Cream with Nano Up Lift 10%

Evaluation period: 7 days with 7 participants evaluation in regular use of the product.

Before Application



After 7 Days of Use



Conclusion: The sensory perceived efficacy evaluation observed that the following percentage of the research participants considered that:

- Improves skin firmness: 100%
- Promotes lifting effect: 67%
- Improves the appearance of skin: 100%

The evaluation of the tensor effect by cutometria was found quel:

- 67% of the study participants showed improved skin tension.
- There was an average improvement of 17% skin tension.

Suggested Formula

Cream with Nano Lift Up 10%

PHASE I %	PHASE II %	PHASE III %
Glycerin.....3,00	Hydroxyethyl.....0,30	Oliwax Lc.....3,00
Procondition 22.....0,40		Brij S2.....2,00
Water qsp.....100,00		Brij S21.....2,00
		Armlamol PS15E.....4,00
Technique: Solubilize at 75-80°C under stirring and adjust pH=4 with citric acid	Technique: Disperse in phase 1 under stirring	Glyceryl Monostearate.....8,00
		Cetostearyl Alcohol.....1,00
		BHT.....0,05
		DC350 Silicone.....1,00
		Triglycerides of caprylic and capric acid.....5,00
PHASE IV %	PHASE V %	Technique: Heat to 75-80 °C
Preservative.....qs	Nano Up Lift.....10	
Technique: Reserve	Technique: Reserve	

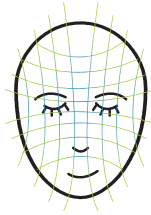
- 1- Disperse 2 in 1 and heat to 75-80 °C
- 2- Add 3 on 1+2 under vigorous stirring
- 3- Keep stirring and temperature (75-80°) for 10 minutes

- 4- Start cooling
- 5- Below 40 °C add phase 4 and 5 and mix

Usage Protocol

- 1 On a clean face, apply a small amount of product in the eye area, twice a day.

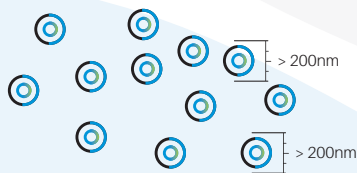
Nanovetores Encapsulation Technology



Multifunctional Biopolymer Particles 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.



Enzymatic Specific Release Trigger, in which the enzymes present in our skin promote the degradation of the capsule, releasing the active ingredient.

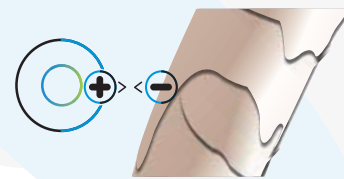


Active ingredient deposition when applied freely



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

Occlusion of odors

Increased skin permeation

Reduced dose

Use of sensitive active ingredients (without refrigeration)

Increased Solubility

Prolonged release

Increased effectiveness