



nanovetor vitamina A

Antioxidant action

Active ingredients: Retinyl Palmitate.

Nanovetor Vitamin A is a retinyl palmitate-based product, encapsulated in lipid particles with particle diameter larger than 200nm. Encapsulation through the technology developed by Nanovetores allows its stabilization and promotes controlled release of the active ingredient for up to 8 hours. Due to its natural features and non-existent chemical aggression, Nanovetor Vitamin A can be used daily, providing in continuous applications, an antioxidant action and stimulation of collagen synthesis.



Features

Aspect: Milky liquid yellow to cream.

Usage Concentration: up to 10%

pH stability: 3.0 to 7.0

Dispersibility: Dispersion of encapsulated actives in water

Particle: Lipid

Release Trigger: Enzyme



Benefits

- Antioxidant Action
- Stimulates collagen synthesis
- Delays aging and softens fine wrinkles
- Keeps skin soft and smooth
- Inhibits the formation of blackheads, improving acne.



Usage

Gels, cream gels, creams, plastic masks, liquid soaps, shampoos and conditioners. Compatible with emulsions in general and non-ionic, anionic and cationic gels.

Description

Vitamin A (retinol) is long used by the cosmetics industry. The palmitate form has the same function, it differs only by its chemical structure, maintaining the same basic characteristics of vitamin A, with the advantage of being more stable against oxygen, light and heat than retinol and its other derivatives.

This active ingredient is an excellent antioxidant, combating free radicals, which are the main responsible for skin aging. It acts on maintaining the epithelial tissue, stimulating the production of collagen and elastin in the skin. In addition to other benefits, it acts against hyperkeratinization and reduction of comedones, smoothing the signs of acne.

Regulatory Information

INCI NAME	CAS NUMBER
AQUA	7732-18-5
RETINYL PALMITATE	79-81-2
LINOLEIC ACID	60-33-3
OLEIC ACID	112-80-1
CAPRYLIC / CAPRYC TRIGLYCERIDE	73398-61-5
POLYSORBATE 80	9005-65-6
ARACHIS HYPOGAEA (PEANUT) OIL	8002-03-7
PPG-15 STEARYL ETHER	25231-21-4
STEARETH-2	9005-00-9
STEARETH-21	9005-00-9
PHENOXYETHANOL	122-99-6
CAPRYLYL GLYCOL	1117-86-8
TOCOPHEROL	10191-41-0
BHT	128-37-0

Physical-chemical Information

PHYSICAL STATE	LIQUID
FORM	MILKY
COLOR	CREAM TO YELLOWISH
ODOR	CHARACTERISTIC
pH	5.0 TO 7.0
DISPERSIBILITY	WATER DISPERSION OF ENCAPSULATED ACTIVE INGREDIENTS
RELATIVE DENSITY	0.9 TO 1.1 g/mL
CHARACTERIZATION	BLEND

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

**Shake before using.

VITAMIN A CONTENT: 100.000 UI/g



COMPATIBILITY:

COMPATIBLE WITH EMULSIONS IN GENERAL AND NONIONIC, ANIONIC AND CATIONIC GELS.



STORAGE:

KEEP BELOW 25 °C, IN A WELL-VENTILATED PLACE, AWAY FROM LIGHT AND HEAT.



INCOMPATIBILITY:

ETHANOL AND OTHER ORGANIC SOLVENTS.

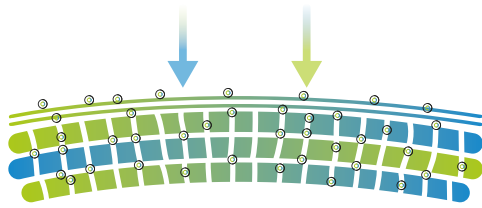
References

1 - MANELA-AZULAY, M.; BAGATIN, E. Cosmeceuticals/vitamins. Clinics in Dermatology, v. 27, n. 5, p. 469-474, 2009.



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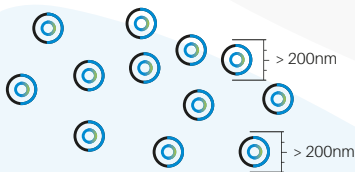
Nanovetores Encapsulation Technology



Multifunctional Lipid Particles that promote hydration and extended effect.



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, where enzymes present on the skin disintegrate particles, releasing the active ingredient specifically where it needs to act.

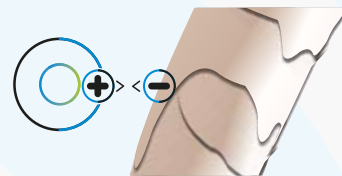


Active ingredient deposition when applied freely



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