

Carri-Active[®] Niacinamide

Description

Carrier systems with the ability to transport actives into the skin are playing an important role in cosmetics already for a long time. The most well-known carrier systems belong to the group of liposomes or nanosomes-vesicles which consist of purified phospholipids from soya. Liposomes have an aqueous core whereas nanosomes internally consist of oil and lipophilic actives. Our new innovative delivery system has been developed together with company Sopharcos. CARRI-ACTIVE[®] have similar or even better properties compared to the familiar liposomes and nanosomes. In our CARRI-ACTIVE[®] we can encapsulate either hydrophilic substances of different molecular weights, or we can encapsulate lipophilic components. The carrier system was investigated ex-vivo and in-vivo on human skin and an improved penetration efficacy has been proved.

To ensure effectiveness of the cosmetic formulation, the actives have to be transported to the target site, mostly into the epidermis. CARRI-ACTIVE[®] Niacinamide is a water-dispersed carrier system (water- in oil-in-water nano-emulsions) that contains Niacinamide. Niacinamide also known as Vitamin B3 or Nicotinamide is a multifunctional active ingredient in cosmetics that strengthens the skin barrier, reduces hyperpigmentation, improves the appearance of fine lines and wrinkles and has an anti-inflammatory effect. Niacinamide promotes collagen production, which has anti-ageing effect, especially on mature skin and reduces the signs of dry skin. It reduces sebum production, making it suitable for oily and acne-prone skin.

Efficacy

- supports skin barrier function
- improves skin tone and reduces hyperpigmentation
- regulates sebum and is suitable for impure skin
- reduces wrinkles and fine lines
- stimulates collagen synthesis
- anti-inflammatory

Appearance

milky white liquid

INCI

Aqua, Glyceryl Citrate/ Lactate/ Linoleate/ Oleate, Niacinamide, Ethyl Oleate

Nature needs no cosmetics,
but cosmetics need nature

Carri-Active[®] Niacinamide

Registration

CAS-No.
 Aqua.....7732-18-5
 Propanediol.....504-63-2
 Niacinamide.....98-92-0
 Glyceryl Citrate/Lactate/Linoleate/Oleate.....
9174-23-9
 Ethyl Oleate.....111-62-6

EC-No.
 Aqua.....231-791-2
 Propanediol.....207-997-3
 Niacinamide.....202-713-4
 Glyceryl Citrate/Lactate/Linoleate/Oleate.....-/-
 Ethyl Oleate.....203-889-5

Preservatives / Stabilizers

preservative.....none
 stabilizer Propanediol.....10 - 25 %

Characteristics

particle size.....110 - 250 nm
 pH value.....5 - 6.5

Application

daily cosmetic products
 creams and lotions
 face masks
 gels and ampoules

Application concentration

3 - 5 %

Incorporation

Shake the dispersion before use! CARRI-ACTIVE[®] Niacinamide can easily be processed into final formulations by stirring at 30 - 40 °C.

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

CARRI-ACTIVE[®] Niacinamide should be stored in original sealed containers at temperatures between 2 - 8 °C at a dry and light protected place.

In sealed containers it has a stability of 12 months.