

Carri-Active[®] Caffeine Plus

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[®] Caffeine Plus is a water-dispersed carrier system (water- in oil-in-water nano-emulsions) that contains Caffeine and Biotin. Caffeine is a xanthine alkaloid compound that acts as a stimulant in humans when consumed. However, it is found to also have some strong stimulating properties in skin care. From eye creams to innovative hair care products, caffeine continues to boost its profile within the personal care industry. Caffeine is widely used in cosmetics to stimulate hair growth or to fight against cellulite. In order that caffeine can do its job properly it is even more important to get caffeine into the skin to the targeted sites. Biotin is a widely used ingredient due to its essential role in supporting healthy skin, hair and nails. Biotin supports keratin production and the combination with caffeine is the perfect combination for hair growth and scalp health.

Efficacy

- enhances skin firmness- anti-cellulite
- improving microcirculation
- reduction of puffiness and dark circles
- stimulates hair growth

Appearance

milky white liquid

INCI

Aqua, Glyceryl Citrate/ Lactate/ Linoleate/ Oleate, Ethyl Oleate, Caffeine, Biotin



Nature needs no cosmetics,
but cosmetics need nature

Carri-Active[®] Caffeine Plus

Registration

CAS-No.	
Aqua.....	7732-18-5
Propylene Glycol.....	57-55-6
Glyceryl Citrate/Lactate/Linoleate/Oleate.....	9174-23-9
Ethyl Oleate.....	111-62-6
Caffeine.....	58-08-2
Biotin.....	58-85-5

EC-No.	
Aqua.....	231-791-2
Propylene Glycol.....	200-338-0
Glyceryl Citrate/Lactate/Linoleate/Oleate.....	294-585-1
Ethyl Oleate.....	203-889-5
Caffeine.....	200-362-1
Biotin.....	200-399-3

Preservatives / Stabilizers

preservative.....	none
stabilizer.....	Propylene Glycol

Characteristics

particle size.....	120 - 200 nm
pH value.....	5 - 6.5
content Caffeine.....	2 - 2.7 %
content Biotin.....	0.125 %

Application

daily cosmetic products
creams and lotions
body care
hair care
eye care
face masks
gels and ampoules

Application concentration

2 - 5 %

Incorporation

Shake the dispersion before use! CARRI-ACTIVE[®] Caffeine Plus 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[®] Caffeine Plus should be stored in original sealed containers at temperatures between 10 - 25 °C at a dry and light protected place.

In sealed containers it has a stability of 12 months.