

Carri-Active[®] Boswellin

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 e.f. Boswellin, called CARRI-ACTIVE[®] Boswellin. 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. Boswellin has been shown to potently inhibit the release of elastase from activated neutrophils. It is also a potent inhibitor of elastase, with an IC₅₀ equal to 2.7 µg/mL. These features make it an excellent ingredient to use in products designed to maintain firm and youthful skin. Boswellin is also recommended for use in products designed for chronically inflamed or sensitive skin. The purified boswellic acids effectively inhibit 5-lipoxygenase, an enzyme responsible for the production of inflammatory mediators in the arachidonic acid cascade and prevent the release of proinflammatory leukotriene B₄ from neutrophils. Clinical studies support the anti-inflammatory effect of Boswellin on panelists. Boswellic acids potently inhibit cathepsin D, one of the enzymes responsible for desquamation. This feature makes it likely that Boswellin can help maintain the stratum corneum and improve barrier function.

Efficacy

- highly effective anti-inflammatory natural substance
- soothes the skin
- improves skin firmness
- improves skin barrier function
- inhibits elastase
- protects the extracellular matrix

Appearance

white milky, slightly viscous solution

INCI

Aqua, Helianthus Annuus Seed Oil, Boswellia Serrata Extract, Glycerol Citrate/ Lactate/ Linoleate/ Oleate, Polyglyceryl-2 Oleate



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Registration

CAS-No.
 Aqua.....7732-18-5
 Helianthus Annuus Seed Oil.....8001-21-6
 Pentylene Glycol.....5343-92-0
 Boswellia Serrata Extract.....97952-72-2
 Glyceryl Citrate/Lactate/Linoleate/Oleate.....
91744-23-9
 Polyglyceryl-2 Oleate.....9553-76-6/9007-48-1

EC-No.
 Aqua.....231-791-2
 Helianthus Annuus Seed Oil.....232-273-9
 Pentylene Glycol.....226-285-3
 Boswellia Serrata Extract.....308-366-6
 Glyceryl Citrate/Lactate/Linoleate/Oleate.....
294-585-1
 Polyglyceryl-2 Oleate.....-/-

Preservatives / Stabilizers

preservative.....none
 stabilizer Propylene Glycol.....15 %

Characteristics

3-O-acetyl-11-keto- β -boswellic acid (AKBA).....
> 1 %
 particle size.....150 - 350 nm

Application

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

Application concentration

2 - 5 %

Incorporation

Shake the dispersion before use!
 CARRI-ACTIVE[®] Boswellin 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[®] Boswellin should be stored in a
 dark place at temperatures below 15 °C. Exposure
 to UV-rays should be avoided.

In sealed containers it has a stability of 12
 months.