

Carri-Active[®] Coenzyme Q10

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[®] Q10 is a water-dispersed carrier system (oil-in-water-emulsions) for lipophilic active ingredients that contains 5 % Coenzyme Q10.

Coenzyme Q10 has a quinoid structure and is therefore also named Ubiquinone 50 or Ubidecarenone. Our Coenzyme Q10 is produced by fermentation process. Coenzyme Q10 is a unique lipophilic antioxidant and radical scavenger that inhibits lipid peroxidation, lipid and protein oxidation in skin cells and also regenerates other antioxidants like tocopherol. It occurs in very low concentrations in nearly all organisms.

Efficacy

- acts as an antioxidant
- minimizes photo-aging
- reduces wrinkles and fine lines
- protects the skin from environmental damages
- minimizes cell stress
- enhances cell energy production and cell activity
- revitalizes the skin
- helps to maintain skin youth

Appearance

orange, slightly viscous solution

INCI

Aqua, Helianthus Annuus Seed Oil, Ubiquinone, Glycerol Citrate/ Lactate/ Linoleate/ Oleate, Polyglyceryl-2 Oleate



Nature needs no cosmetics,
but cosmetics need nature

Carri-Active[®] Coenzyme Q10

Registration

CAS-No.	
Aqua.....	7732-18-5
Helianthus Annuus Seed Oil.....	8001-21-6
Ubiquinone.....	303-98-0
Propanediol.....	504-63-2
Glyceryl Citrate/Lactate/Linoleate/Oleate.....	
.....	91744-23-9
Polyglyceryl-2 Oleate.....	9007-48-1

EC-No.	
Aqua.....	231-791-2
Helianthus Annuus Seed Oil.....	232-273-9
Ubiquinone.....	206-147-9
Propanediol.....	207-997-3
Glyceryl Citrate/Lactate/Linoleate/Oleate.....	
.....	294-585-1
Polyglyceryl-2 Oleate.....	-/-

Preservatives / Stabilizers

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

Characteristics

content Coenzyme Q10.....	4.5 - 5.5 %
pH value.....	5.0 - 6.5
particle size.....	120 - 250 nm
total microbial count.....	< 100 CFU / ml

Application

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

Application concentration

Anti Age creams.....	0.7 - 3.0 %
Hydrogels.....	0.5 - 1.0 %
Body treatment.....	0.1 - 0.5 %

Incorporation

Shake the dispersion before use!
CARRI-ACTIVE[®] Q10 can easily be incorporated
into final formulation at 30 °C under stirring.

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

CARRI-ACTIVE[®] Q10 should be stored in a dark
place at temperatures below 15 °C.

Exposure to UV-rays should be avoided.

In sealed containers CARRI-ACTIVE[®] Q10 have a
stability of 12 months.