

ViaPure[®] Hops

Description

ViaPure[®] Hops is a lipophilic CO₂ plant extract from the cones (aerial bracts) of humulus lupulus (hops) with > 25 % dihydroiso- α -humulones. Linoleic/linolenic acid is used as a vehicle to fully dissolve this material (linoleic and linolenic acid (w/w) 1:3). Humulus lupulus cones are used in brewing to add a characteristic bitter flavour and to make stable foam. Extracts and teas made with humulus lupulus cones (family Cannabinaceae) are reported to have sedative and hypnotic effects, why it was used to treat insomnia, anxiety, tension, or as a sedative. Folk remedies also included uses for inflammation, infections, and bruises.

Humulus lupulus contains various beneficial compounds. These compounds fall into several structural classes such as prenylated flavonoids and chalcones, acylphloroglucinols, terpenoids, and humulones. Humulones are potent anti-inflammatories with specificity to COX-2 activity, inhibit phorbol ester induced skin cancer, and inhibit angiogenesis. However, the main drawback is the extreme instability of humulone. Therefore, although many compounds of hops have useful activities, they also are burdened with structure stability problems. The skunky smell of old beer is due to the oxidative and photo breakdown of humulone. It is also known that during brewing process humulone is converted in several steps to an "iso- α -acid" derivative which makes humulone more stable. Upon isolation of this more stable humulone derivative, the dihydro-iso- α -humulones was tested for its activity. Thus, the active components in ViaPure[®] Hops are stabilized dihydroiso- α -humulones. These anti-inflammatory compounds have potent activity against two different enzymes involved in the arachidonic acid inflammatory cascade (PLA2 and COX-2) and are therefore useful in sensitive skin products. ViaPure[®] Hops is also recommended for products designed for inflammatory skin conditions with excessive blood vessel growth (such as rosacea). It is known that inflammatory angiogenesis can be partially controlled by inhibitors of COX, including humulones. ViaPure[®] Hops has been shown to have anti-angiogenic activity and is therefore also recommended for use in eye area products designed to reduce dark undereye circles.

Efficacy

- prevents buildup of spider veins (rosacea)
- acts soothing
- reduces acute and chronic inflammations
- prevents dark circles
- suitable for very sensitive and atopic skin

Appearance

dark amber oil

INCI

Humulus Lupulus Extract, Linoleic Acid, Linolenic Acid



Nature needs no cosmetics,
but cosmetics need nature

ViaPure[®] Hops

Registration

CAS-No.
Humulus lupulus extract.....8060-28-4
Linoleic acid.....60-33-3
Linolenic acid.....463-40-1

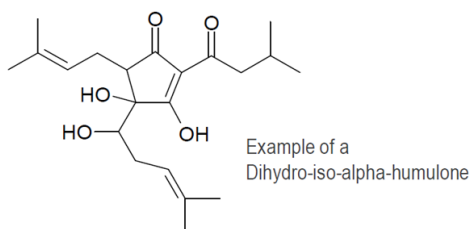
EC-No.
Humulus lupulus extract.....232-504-3
Linoleic acid.....200-470-9
Linolenic acid.....207-334-8

Preservatives / Stabilizers

none

Characteristics

dihydro-iso-alpha acids.....25 - 29 %
linoleic acid / linolenic acid.....75 %
18:1.....9 - 12 %
18:2.....52 - 60 %
density.....0.95 - 0.98 g/ml
water content.....< 5 %



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Application

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

Application concentration

skin care formulations.....up to 1 %

Incorporation

ViaPure[®] Hops is soluble in oil.

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

ViaPure[®] Hops should be stored in original sealed containers in a dry and light protected place at temperatures between 10 – 25°C.

In closed original containers the shelf life is 12 months.