

alpha-Bisabolol organic (A)

Description

Alpha-Bisabolol organic (A) is a clear oily fluid, that contains at least 95 % of (-)-alpha-Bisabolol, a monocyclic unsaturated sesquiterpene alcohol.

(-)-alpha-Bisabolol is known to be one of the active ingredients of *Matricaria Chamomilla*, which is widely used for its anti-irritant and spasmolytic efficacy. In the past (-)-alpha-Bisabolol was extracted from the flowers of Chamomile, which contain in average 30 % of the active ingredient.

Our alpha-Bisabolol organic (A) is produced from the wood of a South American tree, called Candeia tree (*Eremanthus erythropappus* / Synonym: *Vanillosmopsis erythropappa*). The variety rich in Bisabolol grows in Brazilian Atlantic woods at a height of 800 m or above. The small tree has a thick but soft bark that protects it from natural fire.

Atina, our certified partner for sustainable and organic alpha-Bisabolol, is one of the leading producers in the world. In some European countries we are supplying their product on an exclusive base. Atina's main focus is to sustain the existing natural resources and to invest in Candeia plantations. Their aim is to guarantee an ecologically compatible availability of this valuable material, also for the future.

The wood of the tree is milled to produce Candeia oil, which is physically processed to yield only (-)-alpha-Bisabolol, which is the isomer giving the efficacy!

In contrary synthetic Bisabolol, contains a racemic mixture from (-)-alpha-Bisabolol and (+)-alpha-Bisabolol with a lower total assay of 85 %.

The efficacy of natural Bisabolol is therefore 2 times higher than the one of synthetically derived one. This was also shown in different efficacy studies. A further advantage of alpha-Bisabolol organic (A) is the zero content of Farnesol.

Appearance

colorless to clear yellow, limpid, oily liquid with characteristic odor

INCI

Bisabolol
 (INN) Levomenol

Registration

CAS-No.....23089-26-1
 EINECS/ELINCS-No.....245-423-3
 Japan CLS Ingredient No.....505139

Preservatives/Stabilizers

none

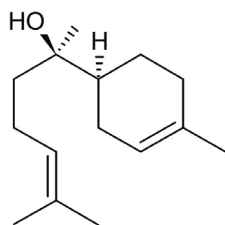
Efficacy

anti-irritant, support of wound healing
 antimicrobial, bacteriostatic
 deodorant
 perfume fixative



alpha-Bisabolol organic (A)

Chemical Structure



Characteristics

Solubility.....easily in absolute ethanol
 Density.....0.927 - 0.935 g / ml
 Refraction index.....1.493 - 1.497
 Optical rotation 20D.....-58° to -55°
 Assay.....>= 95.0 %

Application

Alpha-Bisabolol organic (A) is suitable for all kind of cosmetic formulations, due to its stability and good compatibility with the skin. The anti-irritant efficacy makes it especially applicable for sensitive skin. We recommend to use it in

- all kind of products for sensitive skin
- sunscreen products
- after sun products
- after shave products
- baby care products
- wet wipes
- anti-acne products
- post depilatory formulations
- deodorants
- oral hygiene (toothpaste, mouthwash)
- hair conditioners

Application concentration

Skin Care formulations.....0.1 - 0.5 %
 Deodorant.....0.5 %

Toxicology

non irritating to skin and eyes
 non toxic



Solubility

Alpha-Bisabolol organic (A) is soluble in lower alcohols (ethanol, isopropanol), in fatty alcohols, glycerin esters and paraffin. It is insoluble in water and glycerine. Aqueous solutions can easily be prepared with solubilizers.

Alpha-Bisabolol organic (A) is very stable in cosmetic formulations from pH 3 - 11.

Storage & Shelf life

Alpha-Bisabolol organic (A) should be stored in a dry and light protected place at temperatures below 20°C.

In closed containers < 20°C the shelf life is 3 years.

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