

## Elder Flower Extract natural

### Description

Sambucus (elder) is a genus of flowering plants in the family Adoxaceae (muskroots), with the most famous representative being the black elder (*Sambucus nigra*). Since prehistorical times sambucus is used as food supplement and dyeing agent. In Nordic mythology the elder flower was associated with protection, fertility, and purity. The Greek and Romans, believed the shrub to be home for good spirits, protecting their homes and helping the deceased with the blissful transfer to the great beyond. Especially the so-called elderberry tea became essential in any farmers pharmacy. The shrub was thought to absorb negative energies and diseases, relieve pain, fever and inflammations. The deodorizing effect of the extract was historically used for example as mouth washes. The extract of elder flowers contains several secondary phytochemicals with proven health-promoting activities. In particular the bioflavonoids are present in the flowers with a high amount, being responsible for the colour and protection of the shrub from environmental damages, above all rutin. Glycosides protect the plant from predators, as well as present tannins, vegetable tanning agents (e.g. derivatives of gallic acid). Furthermore, mucilage, etheric oil, and organic acids were identified. Our special extract stands out for an assured minimum quantity of rutin and tannins and demonstrates a spectrum of very interesting actions in cosmetic formulations.

Bioflavonoids provably promote microcirculation in the skin and hence show several profitable activities in modern cosmetics. This effect, for example, is much desired in scalp care, massage products, body lotions and in formulations for legs. Enhances microcirculation optimizes the removal of damaged protein fragments and therefore minimizes swelling and dark colouring, like in case of hemoglobin accumulations. The antioxidative activity of the combination of  $\alpha$ -flavanols with tannins has to be emphasized in particular, demonstrated by the effectiveness against oxidative stress.

### Efficacy

- acts as an antioxidant
- increases microcirculation
- promotes the resistance of blood vessels
- reduces swelling
- has an anti-inflammatory effect
- protects skin cells from harmful environmental influences

- prevents the formation of dandruffs
- acts anti-phlogistic
- acts anti-microbial
- has an astringent effect
- reduces unpleasant smell

### Appearance

dark brown solution

### INCI

Sambucus Nigra Flower Extract

### Registration

CAS-No.....84603-58-7  
EC-No.....283-259-4

Nature needs no cosmetics,  
but cosmetics need nature



## Elder Flower Extract natural

### Preservatives / Stabilizers

preservatives.....none  
stabilizer pentylene glycol.....40-42 %

### Characteristics

content of water.....40 - 60 %  
content of natural tannins.....>= 1,00 %  
content of bioflavonids ( $\alpha$ -flavanols) rutin.....  
.....>= 0,50 %  
pH-value.....5,00 - 6,00

### Application

daily cosmetic products  
creams and lotions  
face masks  
gels and ampoules  
body care  
shampoos and conditioners  
hair masks  
body wash  
deodorants  
massage products

### Application concentration

skin care formulation.....1 - 3 %  
showers / baths.....3 %  
body lotions.....1 - 2 %  
massage products.....3 %  
products for hair care (leave-on).....1 - 2 %  
deodorants.....2 %

### Incorporation

Elder Flower Extract natural should be blended into the water phase at max. 70°C.  
Elder Flower Extract natural is soluble in water.

An emulsifier may be necessary to prevent rutin from precipitation:

5 % in water / ethersulfate (75 / 25)  
5 % in water / ethanol (80 / 20)  
5 % in water / dispersible, yellow

### Toxicology

non hazardous in normal use concentration  
pure raw material causes serious eye damage

### Storage & Shelf life

Elder Flower Extract natural should be stored in a dry and light protected place at 10 - 25°C.

In closed original containers the shelf life is five years.