

Phytosterol Complex 95 %

Description

Phytosterols are important ingredients of plants. They are structural components of the cell membrane, analogue to cholesterol in human cells. They mainly occur in the lipophilic parts of plants for example seeds. As part of human food phytosterols pass into blood circulation and are stored in the skin lipid bilayer, where they are responsible for structuring and stabilization. As natural emulsifier they form together with other components lipidic protection films on skin and hair. In addition, phytosterols are known to be anti-irritant, they reduce erythema and itching. Phytosterol Complex 95 % was developed based on the idea to offer a natural protective agent, able to repair damaged skin and act as a safeguard for intact skin.

Healthy cells of the skin can be damaged by numerous extrinsic pollutants. Due to this process cell membrane components like arachidonic acid are released and changed into reactive metabolic substances. Among others also leukotrienes are formed, which are strong mediators of inflammatory processes. They are also involved in the beginning and persistence of dermatitis. Phytosterols influence the inflammation cascade and neutralize the undesired reactions of leukotrienes. Phytosterols have a high potential to care dry and itchy skin which is close to eczema or atopic dermatitis. They even repair defect skin lipid bilayers and were shown to be often more effective than cortisone without showing its unwanted side effects. Their anti-irritant and anti-itching effect is appreciated for daily skin care, sun creams, lip sticks, pre- and after-shaves, for the care of very dry skin as well as for dermatological products.

Efficacy

- reduces irritations
- reduces erythema
- reduces itching
- supports skin repair
- normalizes sebum production
- reduces inflammations
- regenerates skin barrier function

Please have a look at our
[Leaflet_7265_Efficacy_e](#) for more details.

Appearance

white to yellow-amber powder

INCI

Glycine Soja Sterols or Phytosterols

Registration

CAS-No.....-/-
 EC-No.....-/-
 JCIC.....Phytosterols

Raw material approved by ECOCERT GREENLIFE,
 conform to the COSMOS Standard.



Nature needs no cosmetics,
 but cosmetics need nature

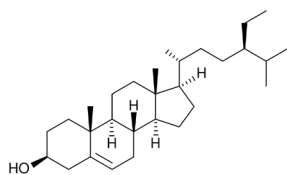
Phytosterol Complex 95 %

Preservatives / Stabilizers

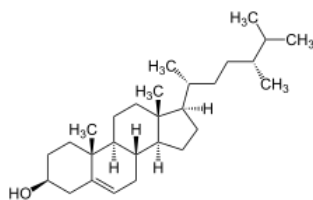
none

Characteristics

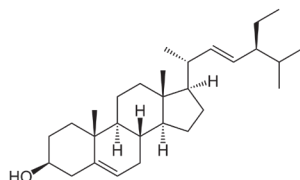
total phytosterols.....>= 95.0 %
 beta-sitosterol.....>= 40 %
 campesterol.....15 - 30 %
 stigmasterol.....15 - 30 %
 brassicasterol.....<= 10 %



beta-sitosterol ©www.wikipedia.org



campesterol ©www.wikipedia.org



stigmasterol ©www.wikipedia.org

molecular weight.....approx. 400 g/mol⁻¹

Application

daily cosmetic products
 creams and lotions
 face masks
 gels and ampoules
 body care
 after sun care
 after shave
 dermatological care
 hair care

Application concentration

skin care formulations.....0.2 - 0.5 %
 dermatological care.....1.0 - 2.0 %
 shampoo.....0.05 - 0.2 %

Incorporation

Phytosterol Complex 95 % can be incorporated in the oil phase by first dissolving at 50°C with gentle agitation. Phytosterol Complex 95 % is insoluble in water. It is very soluble in plant oils (50°C).

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

Phytosterol Complex 95 % should be stored in a dry and light protected place at 10 - 25°C.

In closed original containers the shelf life is 24 months.