

SITOSTERIDE **(Lanolin substitute without components of animal origin)** **/ A / B /**

OVERVIEW

Lanolin is a component of primary importance in the preparation of cosmetic and dermatological formulations. Although its chemical composition is highly complex, the most noteworthy substances in it, which moreover are those that confer its main characteristics are cholesterol and its esters; on the other hand it is to stand out the complete absence of glycerides (fats).

Lanolin presents a series of very singular characteristics that have made it an almost irreplaceable material in cosmetics. However, the recent appearance of epizootic diseases, is driving the search for substitutes of a non-animal origin with characteristics similar to the lanolin that comes from sheep's wool.

After a long research effort, we present SITOSTERIDE to the market, which is a lanolin substitute that does not contain any component of an animal origin. For this the cholesterol and its esters have been replaced by soy phytosterols, which has beta-sitosterol as its main component, in addition to small amounts of campesterol and stigmasterol.

Both cholesterol and beta-sitosterol are cholestan derivatives. Cholesterol can only be found in animal organisms; on the other hand beta-sitosterol is of vegetable origin exclusively. Chemically the former is 3-hydroxycholestene; the latter is 3-hydroxy-24-ethylcholestene.

The composition of SITOSTERIDE by BIOGRÜNDL, is the following:

WAXES	15-20 %
PHYTOSTEROLS	15-20 %
HYDROCARBONS	30-40 %
FATTY ALCOHOLS	5-10 %
GLYCERIDES	2-5 %
VEGETABLE OILS	25-35 %

SITOSTERIDE has the same qualities by water absorbing qualities, auxiliary emulsifiers, oil emollient agents and wax and fats plasticisers as lanolin, but with the advantage over the latter in that it always presents the same composition, the same colour, less smell, great stability and the absence of pesticides, heavy metals, as well as of pathogenic agents.

DOSE AND INSTRUCTIONS FOR USE

It has the same uses as lanolin and substitute it in the same proportions.

Recommended doses of employment are between 2 and 10%.

PHYSIC-CHEMICAL PROPERTIES

Aspect: Solid (sticky mass).

Colour: Typical (yellowish-brown).

Odour: Characteristic.

State changes

Melting point: 35°C to 42°C.

Pesticides: None.

Formaldehyde: Negative.

Acid value: Below 5.

Fe, As, Pb, Ni and Hg: Maximum 1 ppm each.

Iodine value: Maximum 125.

Water absorption: Minimum 30%.

Solubility in water: (20°C) Fully insoluble.

Solubility in other solvents: Soluble in organic solvents and lipids. Insoluble in surfactants and hydroalcoholic mixtures.

Other information: None.

Total aerobes: Max 300 microorganisms / gram.

Fungi and yeasts: Max 200 microorganisms / gram.

Pathogens: Total absence in 1 g.

DERMATOLOGY INNOCUOUSNESS

On the recommended concentrations, the product is skin innocuous.

STORAGE CONDITIONS

It is very important to keep the product in well closed containers, away from direct sun light and at temperatures not over 25°C.

INCI DENOMINATION

CERA MICROCRISTALLINA, SOY STEROL, PETROLATUM, HELIANTHUS ANNUUS SEED OIL, CETEARYL ALCOHOL, GLYCERYL STEARATE, BHT.



CTFA DENOMINATION

MICROCRYSTALLINE WAX, SOY STEROL, PETROLATUM, SUNFLOWER SEED OIL, CETEARYL ALCOHOL, GLYCERYL STEARATE, BHT.

INFORMATION NOTE

As with lanolin, SITOSTERIDE is also a mixture of lipid components but none of them are of animal origin, with the exception of beeswax.