



NATURA-TEC SEARENEW is a unique infusion of Sapote Oil and Nannochloropsis Oceanica microalgae species. This infusion is optimized and concentrated to promote and support hair strength and growth.

Sapote oil from the Dominican Republic is an active oil rich in lupeol which is a triterpene alcohol inducing keratinocyte differentiation ⁽¹⁾ and also rich in omega 9 and 6 stimulating hair growth and skin regeneration ⁽²⁾.

Nannochloropsis Oceanica, isolated in Norway, has an extremely high cholesterol content (>70% total sterol). This species is the very first substantial source of cholesterol from microalgae. Cholesterol is essential for eukaryotic organisms and especially plays an important role for hair vitality. The sebocytes, epithelial cells forming the sebum, release lipids such as cholesterol, squalene, waxes and triglycerides at the end of their differentiation and thus protect the hair against dehydration and participate in the microbial ecosystem. Cholesterol is thus essential for healthy hair.

(1) Nikiéma et al., 2001

(2) J Cosmet Dermatol. 2015 Mar;14(1):76-82

NATURA-TEC SEARENEW™ **Hair Growth and Strength Active**

PROPERTIES

NATURA-TEC SEARENEW is the result of advanced research and careful development based on sustainable microalgae technology using eco-friendly industrial production processes combined with renewable sapote oil crops which preserve biodiversity and support local communities.

Sapote oil is a sustainable and active oil, source of triterpene alcohols, sterols, omega 6 and 9.

Nannochloropsis Oceanica Extract is the first substantial source of cholesterol in the vegetable world with one of the highest sterols' concentration (cholesterol content > 70% sterol total).

In vitro test shows the ability of **NATURA-TEC SEARENEW** to induce an intense proliferation of human follicle dermal papilla fibroblasts.

Papilla fibroblast are involved in hair growth regulation. They are located at the basis of hair follicle. Papilla fibroblast are a pluripotent stem cell reservoir and generate signals causing proliferation, migration and differentiation of essential cells for the growth of the hair follicle.

After 72h, NATURA-TEC SEARENEW shows a significant fibroblast proliferation already at 0,5%. With 5% of use NATURA-TEC SEARENEW increases by 70% the dermal fibroblasts proliferation.

NATURA-TEC SEARENEW is a cell proliferation inducer of hair follicle fibroblasts.

COSMETIC APPLICATIONS

Use : Introduce at the end of the formulation either in O/W or W/O system during the cooling step.

Dosage : From 0,5 to 5% in hair care applications.

Applications : Shampoo (0,5%), hair care, hair mask and scalp treatment (0,5% to 5%).

TECHNICAL DATA

Appearance: Light Yellow to Yellow

INCI : Pouteria Sapota seed Oil (and) Nannochloropsis Oceanica Extract