

Tamanu Oil

FOR THE HEALING AND GROWTH OF HEALTHY SKIN



ECSA ITALIA Srl Società con Unico Socio

Via Laboratori Autobianchi 1
I-20832 Desio (MB)
T. +39 0362 625 421



ecsa-chemicals.ch
CONTACT US

Tamanu oil

Natural skincare



Tamanu oil is extracted from the seeds of *Calophyllum Inophyllum*. This plant was used since ancient times in Polynesian traditional medicine. [1]

Research shows that the oil of Tamanu contains three basic classes of lipids:

- Neutral lipids
- Glycolipids
- Phospholipids.

The oil also contains a unique fatty acid called calphyllic acid, and a novel antibiotic lactone and the non-steroidal anti-inflammatory agent called calophyllide. These and other components of Tamanu oil, including anti-inflammatory coumarins, account for some of the oil's beneficial activity.

The Study

Some in vivo studies have demonstrated the effectiveness of tamanu oil which appears to significantly reduce scars and heal wounds.

Bioscience Laboratories conducted a study of Tamanu oil's ability to improve the appearance of scars. Six subjects with obvious scars aged for one year or more participated in the test.

Subjects were not allowed to use moisturizers on their scarred areas for seven days before the test or throughout the nine-week test period.

Scars were rated for roughness, length, width, and degree of difference from surrounding normal skin. Measurements of darkness and redness were also taken for scarred and surrounding normal skin. Digital photos of scars were taken prior to the initial application and at the end of week nine.

Tamanu oil was applied to the scarred area twice daily for nine consecutive weeks. There was a significant improvement in the appearance of scars after six weeks, and improvement continued through week nine. Scar length was reduced by an average of 0.28 centimeters, and width was reduced by an average of 0.12 centimeters. [2]

Tamanu oil properties

This oil is also known for its antibacterial, antifungal, and anti-inflammatory properties [3][4][5] and it's used for treating some dermatological problems such as burns, dermatoses, eczema, diabetic sores, hemorrhoids, eczema, and dry skin. [6]

Antioxidant and anti-UV properties:

A study has shown that Tamanu oil is able to reduce cellular production of ROS and in addition, has good UV light absorption capacity. [7]

Antimicrobial properties:

The neoflavanoids in tamanu oil would appear to have antibacterial activity against staphylococcus aureus and against bacterial strains involved in acne, for example, Propionibacterium acnes. [8]

Anti-inflammatory properties:

Calophyllol has been shown to reduce myeloperoxidase activity and down-regulation of the pro-inflammatory cytokines. [9]

Its multiple beneficial properties make tamanu oil an excellent raw material for cosmetic formulations.

In addition to tamanu oil, there are other products used in cosmetics, which are derived from the same plant, such as:

- Tamanu Leaf extract, made with 100% dried and powdered Tamanu leaves
- Tamanu gel, containing 40% of pure Tamanu oil
- Pills or sachets of Tamanu made with 100% of Tamanu oil. These pills are used for a prompt action against sunburn or insect/jellyfish sting

Contact us for further information

Packaging, example of formulation and a complete presentation are available on request

Bibliography

[1]

S. C. Abbott IA, "The geographic origin of the plants most commonly used for medicine by Hawaiians," J. Ethnopharmacol, pp. 213-222, 1985.

[2]

A. Dweck, "Calophyllum inophyllum - Tamanu oil the African, Asian, Polynesian and Pacific Panacea.," International Journal of Cosmetic Science, 2002.

[3]

Y. M. e. al., "Antimicrobial and cytotoxic agents from Calophyllum inophyllum.," Phytochemistry , pp. 2789-2795, 2004.

[4]

D. D. S. K. T. K. Saravanan R, "Antimicrobial activity of various extracts from various parts of Calophyllum inophyllum," J Appls Pharm Sci, pp. 102-106, 2011.

[5]

B. T. e. al., "Calophylloide - a new non-steroidal and anti-inflammatory agent," Indian J Med Res, pp. 762-765, 1980.

[6]

P. e. a. Raharivelomanana, "Tamanu oil and skin active properties: from traditional to modern cosmetic uses," OCL, 2018.

[7]

S. T. e. al., "Cytoprotective effect against UV-induced DNA damage and oxidative stress: role of new biological UV filter.," Eur J Pharm Sci Off J Eur Fed Pharm Sci , pp. 203-210, 2007.

[8]

L.-B. M. L. C. e. a. Léguillier T, "The wound healing and antibacterial activity of five ethnomedical Calophyllum inophyllum oils: an alternative therapeutic strategy to treat infected wounds.," 2015. [Online].

[9]

R. P. e. al., "Tamanu oil and skin active properties: from traditional to modern cosmetic uses," 2018. [Online].