Pharmacological Activities and Cosmetic Uses of Babassu (Orbignya phalerata)

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ACTIVITY OF BABASSU

The topical use of aqueous extract of Babassu mesocarp caused the wound healing in rats. It has been observed that treatment with babassu induced macrophage activation leading to increased nitric oxide production and the release of histamine, stimulating phagocytic activity⁵.

The activation of macrophages during early stage of wound healing is partly provided by the nitric oxide, which acts by stimulating the natural antimicrobial properties. Some studies show that inhibition of nitric oxide synthesis in mice affects wound healing⁶.

THE IMPORTANCE OF THE USE OF **BABASSU OIL IN COSMETICS**

Babassu is the generic name given to palm trees belonging to the Palmae family and members of Orbignya and Attalea genres. The first genus includes predominantly native species of northern Brazil (Maranhão, Piauí, Pará and Ceará), such as: Orbignya phalerata Mart, Orbignya eichleri Drude, Orbignya teixeirana Bondar and Orbignya microcarpa Martius. The Orbignya phalerata is the species most widely distributed of greater morphological variation and greater economic importance. This species occupies areas extensive in Brazil, Bolivia and Suriname. Babassu is native of the transition zone between savanna and forest in the southern Amazon^{1,2}.

THE USE OF BABASSU (Orbignya phalerata)

The fruit of the Babassu is the part most commonly used as a food resource by man and animals, especially the babassu almonds³.

The fruit of the Babassu have widespread use mainly as a food item at the same time generate income as a commercial product for the oil, which is extracted from babassu almonds³.

In the work of Pereira et al.³ only 7% of respondents recognize the medicinal activity of babassu. The respondents used almond oil extracted in wound healing, in treating fungal infections and as a laxative. The popular uses of babassu use include the treatment of obesity, colitis, arthritis, leukemia, rheumatism,

The importance of using babassu oil in cosmetics is due to the presence of compounds such as myristic, palmitic and oleic acids. Babassu oil is an emollient oil that can be used in various formulations for the care of skin and hair. It can be employed in cosmetic formulations, such as face creams, cleansing emulsions and creams for body. In formulations for hair care, babassu oil can be because the lauric fatty useful acids and unsaponifiables present may help in lipid replenishment and elasticity of the hair fiber⁷.

REFERENCES

ulcerations, inflammations and tumors of the uterus and ovaries⁴.

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1. Zylbersztajn D, Marques CAS, Nassar AM, Pinheiro CM, Martinelli DP et al. Reorganização do agronegócio do babaçu no estado do Maranhão. Relatório técnico. Grupo Pensa-USP, São Paulo. 2000. 120pp.

2. Clement CR, Peres EL, Leeuwen JV. O potencial das palmeiras tropicais no Brasil: Acertos e fracassos das ultimas décadas. Agrociencias, 2005;9(1-2):67-71.

3. Rufino MUL. Conhecimento e uso da biodiversidade de palmeiras (Arecaceae) no Estado de Pernambuco, nordeste do Brasil. Dissertação. Universidade Federal de Pernambuco: Recife. 2007. 57 p.

4. Santos FV, Pozetti GL, Varanda EA. Avaliação da mutagenicidade do extrato alcoólico de Orbignya phalerata Mart. Revista Brasileira de Plantas Medicinais. 2006;8(4):165-8.

5. Amorim E, Matias JEF, Coelho JCU, Campos ACL, Stahlke Jr HJ, Timi JRR et al. Efeito do uso tópico do extrato aquoso de Orbignya phalerata (babaçu) na cicatrização de feridas cutâneas - estudo controlado em ratos. Acta Cirúrgica Brasileira. 2006;21: 67-76.

6. Malawista SE, Montgomery RR, van Blaricom G. Evidence for reactive nitrogen intermediates in killing of sthaphilococci by human neutrophil cytoplasts. A new microbicidal pathway for polymorphonuclear leukocytes. J Clin Invest. 1992; 90:631-6.

7. Silva MF, Silva LBL, Neto PJR, Santana DP, Wanderley AG, Dias PC, Carvalho J. E. Óleo de babaçu: novo adjuvante lipofílico. Cosmet. Toiletries, 2000;12(05): 65-68.