

Andiroba Oil

EPHYLA
Natural Active Design



INCI name: Carapa guianensis seed oil

Renewable botanical origin: seeds of the tree

Geographic origin: Brazilian Amazon

Color: yellowish

Form: liquid

Odor: mild and subtle nuts scent

Identity card



Composition et treatment

- The seeds of Andiroba are harvested in wilderness in Brazilian Amazon native area .
- The Aboriginal people prepare it in a traditional way by settling, crushed seeds after drying in the sun and mixing with the pestle.
- By settling, the oil contains a little stearic acid and palmitic acid, so is enriched in unsaturated fatty acids and unsaponifiables. By this original process, the oil has a lower melting point and only freezes at low temperature.
- Composition in fatty acids: 49.3% oleic acid, 31% palmitic acid , 9% linoleic acid, 7% stearic acid, 2% arachidic acid, 1% hexadecenoic acid et 0.7% linolenic acid.
- The remaining oil contains terpenes, meliacins such as gedunin and limonoids, quassinoids such as the andirobine and epoxyazadiradione.



Properties

- Very efficient against inflammation, muscle pain and rheumatism: in 2005, a Brazilian team demonstrated the anti-allergenic and analgesic properties of the Andiroba.
- Repellent against insects: in 2004, another Brazilian team carried out a comparative study between Andiroba and the insect repellent DEET at 50% as reference , and highlighted the repellent action of the Andiroba.
- Drains and helps to eliminate hydrolipidic retentions: it has been shown that Andiroba oil inhibits "glucose 6 phosphate dehydrogenase" and thus inhibits the synthesis and the storage of fatty acids (in adipocytes, for example). It is therefore forbidden to use this oil for a slimming claim, on an integral part.



References:

- C. Penido, K.A. Costa, R.J. Pennaforte, M.F.S. Costa, J.F.G. Pereira, A.C. Siani & M.G.M.O. Henriques. « Anti-allergic effects of natural terpantriterpenoids isolated from Carapa guianensis Auble on allergen-induced vascular permeability and hyperalgesia. *Biomedical and life sciences* **2007**; 54:295-303.
- H.A. Miot, R.F. Batistella, K.D.A. Batista, D.E.C. Volpato, L.S.T. Augusto, N.G. Madeira, V. Haddad, & L.D.B. Miot. "Comparative study of the topical effectiveness of the Andiroba oil (Carapa guianensis) and DEET 50% as repellent for Aedes sp". *Rev Inst. Med. Trop.* **2004**; **46**: 253-256.
- European patent: EP087 2244



The Andiroba is named after the Indian populations because of its bitter taste (nhandi = oil; rob = bitter). The oil is known in the Amazon for several properties : anti-inflammatory, antiseptic, healing and lipolytic