



TECHNICAL DATA SHEET:
COSMETIC GRADE ANNATTO OIL



BERACA presents a wide portfolio composed of fixed oils, butters, scrubs, clays and actives sustainably sourced from the Brazilian biodiversity. The ingredients sold by the company are directly related to the work developed by extractive communities throughout Brazil. Through the Socio-Biodiversity Enhancement Program®, the company connects biodiversity to thousands of consumers around the world. This means, among other advantages for our stakeholders, transparency, traceability and innovation, which directly contribute to regional development and environmental preservation of different biomes in the country.





GENERAL INFORMATION

The species *Bixa orellana* belongs to the botanical family Bixaceae, it occurs from the Amazon region to Bahia, in rain forest. It is popularly known as annatto. This plant can reach 3 to 5 meters in height, with a trunk of 15 -25 cm in diameter covered by brown bark and a well-developed canopy.

Its fruits are ovoid, capsule-like, and have a dense coating of soft, harmless spines up to 0.5 cm long. The capsules are called "cachopas", ranging from 360 to 4,900 per plant, and contain an average of 54 seeds inside, surrounded by red arils that give them the characteristic color. One kilo of seeds contains about 22,000 units. The main product is the seed, which has a coverage rich in bixin, a dye of interest in national and international markets.

It is a perennial plant, heliophite, characteristic of the Amazonian lowland forest. It blooms during spring and early summer. The fruits ripen in late summer and early autumn. Its seeds have condiment and dyeing qualities: yellow (orelina) and red (bixin) dyeing materials are extracted from the pulp surrounding the seeds; they are used in cooking and in the food industry.

PROPERTIES

Annatto oil has carotenoids, mainly bixin that brings its reddish natural color to cosmetic formulations, besides antioxidant properties, protecting the skin and acting on free radicals, decreasing the aging process of the skin.

It is a cosmetic grade oil and can be applied in several products granting color and antioxidant protection, besides moisturization. It is considered also a natural coloring agent and can substitute synthetic versions in cosmetic applications.

COSMETIC USE

Annatto Oil can be applied in several types of cosmetics formulations:

- Suntan Lotions;
- Suntan Oil;
- Shampoos;
- Conditioners;
- Leave ins;
- Seruns;
- Anti-aging creams and lotions;
- Children's products;
- Make ups.



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