

Jojoba Oil Research Paper

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Jojoba Oil is a clear, golden liquid that is extracted from the seeds of the Jojoba plant, whose scientific name is *Simmondsia Chinensis*. The oil extracted from the seeds is great in skincare and for use in the formulation because it's very resistant to oxidative degradation. When exposed to air over a period of time, it does not lose its efficacy or go rancid very quickly, making it a very stable oil. Three Ships utilizes Jojoba Oil's beneficial properties in products such as the Glow 49% Jojoba Oil Serum.

JOJOBA OIL ALSO FALLS INTO THE CLASS OF MOISTURIZING AGENTS CALLED EMOLLIENTS

Jojoba Oil's ability to be stable over time when exposed to air is relatively uncommon for plant oils. Most plant oils suffer from the limitation of degradation over time as they go through oxidative damage, which can lead the oils to be highly irritating to the skin.

This, however, is only a major concern when using 100% pure plant oils, and not much of an issue for oils that are formulated into products. Typically, oils that are formulated with other ingredients tend to be paired up with antioxidants and other stabilizers to help promote the longevity of the ingredients and the overall products.



Jojoba Oil is obtained from the plant *S. Chinensis*, a drought-resistant shrub. The fruit capsules of the Jojoba bush can contain one to three seeds.

Traditionally, the seeds are washed and cleaned before they go through an oil extracting process.

The exact method of extraction of Jojoba Oil that Three Ships sources is proprietary information.

JOJOBA OIL IS RICH IN WAX ESTERS THAT HELP TO REPAIR THE SKIN'S LIPID BARRIER

Jojoba Oil is rich in wax esters that help to repair the skin's lipid barrier and, because of its high content of wax esters, Jojoba Oil has both emollient and occlusive properties. Recall that emollients are oils or oil-like substances that soften the skin texture, while occlusives are ingredients that sit on top of the skin and seal in moisture.

Occlusives decrease trans-epidermal water loss and are a key property of the wax esters that are abundant in Jojoba Oil. The wax esters make Jojoba Oil a desirable ingredient for people that have skin diseases related to a skin barrier impairment such as acne and atopic dermatitis.

SCIENTIFIC STUDY

Studies on Jojoba Oil Clay Mask for Lesioned Skin and Acne

In one study, researchers tested the effects on jojoba oil clay masks on acne-prone and lesioned skin. 194 volunteers used a healing clay mask with jojoba oil 2-3 times a week for 6 weeks.

The study found a average reduction of total lesion count of 54% after the 6 week treatment. The mean individual reduction of comedones was 39.1%. This study was limited by design as the participants were instructed to count and report their own lesions and acne, which decreases the consistency of the results.

More testing has to be done to officially recommend the topical use of Jojoba Oil on open wounds on people, but there is interest in what Jojoba Oil can do in wound closure and healing, and skin regeneration.

Jojoba Oil is a stable, natural oil derived from the Jojoba plant. It works with both emollient and occlusive properties to keep the skin hydrated and support its natural lipid barrier.

Due to the great stability and amazing moisturizing properties of the ingredient, Jojoba Oil can be found as the hero ingredient in Three Ships Products, such as the Glow 49% Jojoba Oil Serum.