

DW Jojoba Oil

Desert-made, sebum-mimetic wax



DW Jojoba Golden*

DW Jojoba Golden Organic**

DW Jojoba Colorless*

**DW Jojoba Colorless
Organic****

INCI: Simmondsia Chinensis
(Jojoba) Seed Oil

CAS #: 90045-98-0

EC #: 289-964-3

Skin mimetic composition

**70% hydration increase
in 14 days**

25% sebum reduction

**24% radiance
improvement**

**Excellent oxidative
stability**

Recommended applications



All cosmetics

Leading the way for sustainable and traceable jojoba oil by supporting our customers' needs with two farms in two hemispheres, for complete supply security.

Vantage™ is a global natural chemistry company that creates, produces and sources high-end and tailored specialty chemicals and ingredients incorporated into everyday products that nourish, care, sustain and enhance performance. Back-integrated into natural oils and oleo chemistry, we use science to transform naturally-derived products by bringing technology from the lab into the global marketplace.

Nothing illustrates this commitment to natural and sustainable ingredients better than our investments in our jojoba activities in the USA and Argentina. A native crop from the Sonoran Desert, jojoba's history is tightly intertwined with Arizona's rich ethnobotany heritage. Vantage™ carries on this legacy with its renowned DW Jojoba oil range, and by leading the science behind jojoba and creating new opportunities to bring jojoba derivatives to beauty and personal care applications, From Farms to Formulations™.



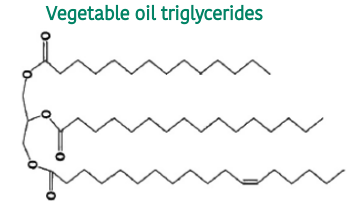
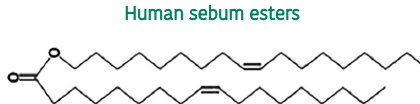
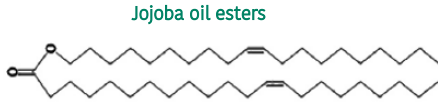
*Natural origin verified by Ecocert and COSMOS

**Certified organic based on USDA-NOP regulation

Vantage

Sebum mimetic composition

Jojoba oil is not an oil, but a protective wax. Its chemical structure is different from that of other vegetable oils. It is a polyunsaturated liquid wax that is similar to human sebum, and contains a rich anti-oxidative mix of primary and secondary plant metabolites.

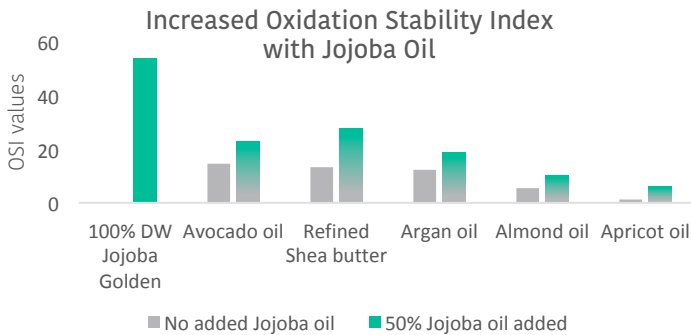


Composed almost completely of highly stable, high molecular weight wax esters of monounsaturated, straight chain acids and alcohols.

Broad variety of primary and secondary metabolites, with strong anti-oxidant and skin protection properties.



Stable wax for easy formulation

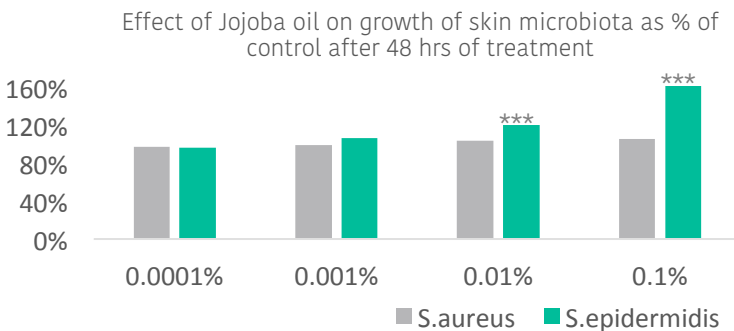


Jojoba oil does not oxidize or become rancid and does not break down under high temperatures and pressures. Jojoba oil can be heated to 188°C for 96 hours without degradation in composition and carbon chain length, making it an ideal ingredient for lipsticks or hot pours.

Jojoba oil's high oxidative stability improves the stability of more sensitive natural oils when mixed together, protecting your entire formulation.

Rebalancing skin microbiome

To understand the effect of jojoba oil on human microbiome, we selected *S. epidermidis* (commensal bacteria) and *S. aureus* (opportunistic pathogen) as test micro-organisms to conduct microbiome studies.



After 48h, Jojoba oil lead to a **62%** growth of the commensal (beneficial) skin microbiota such as *S. epidermidis* versus control, thus **re-balancing disrupted microbiomes**.

*** Statistically highly significant ($p < 0.001$) vs baseline

Clinical studies reveal that jojoba oil provides a broad array of skin benefits leading to an overall healthier complexion. Jojoba oil acts as a second skin, providing protection, hydration and contributes to quick reparation of damages. Additional studies on hair care benefits and stretch marks reduction are also available.

Better hydrated, firmer skin

+70%
moisturization
vs.baseline*



+26%
elasticity
vs.baseline*



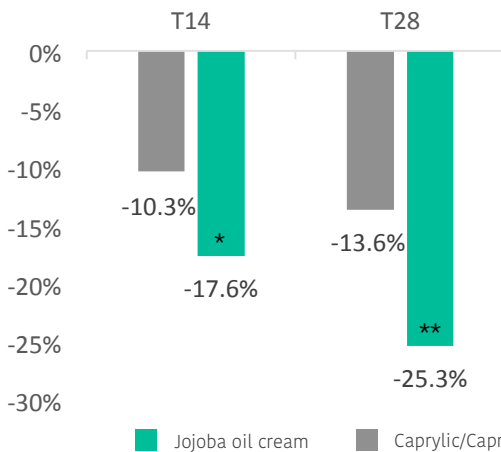
Jojoba oil provides immediate and sustained skin hydration due to its unique composition. The increase in moisturization contributes to a firmer and more elastic skin.

METHOD

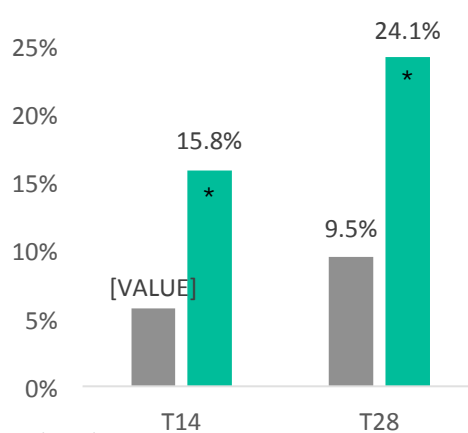
- Corneometry evaluation
- 30 volunteers
- 14 days
- O/W emulsion + 20% jojoba oil
- *statistically highly significant (p<0.001) vs baseline

Fast improvement of skin complexion

Reduction in sebum content



Improvement in Skin Radiance



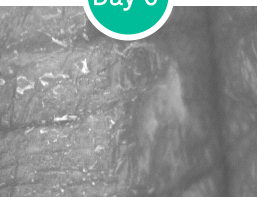
Jojoba oil rapidly contributes to a healthier complexion.

METHOD

- Corneometry and instrumental evaluation
- 60 volunteers with oily skin
- O/W emulsion + 10% jojoba oil or caprylic/capric triglyceride
- *Statistically significant (p<0.05) vs CCT cream
- ** Statistically significant (p<0.001) vs 10% CCT cream at T28

Lip moisturization & repair

Day 0



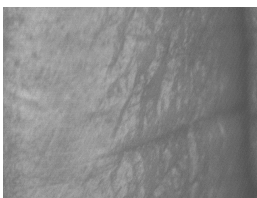
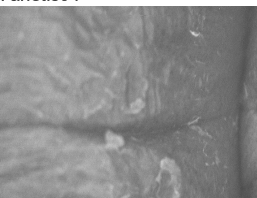
Day 3



Day 7



Panelist 1



Panelist 2

Effect of 39% of jojoba oil in a solid lipstick

Jojoba oil demonstrates stronger moisturizing performance than traditional oils such as castor oil. 30 minutes after application, Jojoba oil **increased lip moisture by 51%**, compared to 29% for castor oil. A 7-day visual study reveals significant improvement of lip texture.

METHOD

- Corneometry and visual evaluation
- 24 volunteers with dry lips
- 39% of jojoba oil in a stick

The original vegan treatment

Jojoba shares a strong connection with Native American traditional medicine. For centuries, the golden oil was extracted and used to treat sores and wounds. In the 1970's, commercial interest for jojoba exploded when it was identified as a vegan alternative to whale-derived oil, which was commonly used in cosmetics at the time.

Vantage™ is committed to investing its resources to better understand the science behind jojoba oil and support formulators developing high-performance cosmetic products with visible efficacy and strong consumer preference.

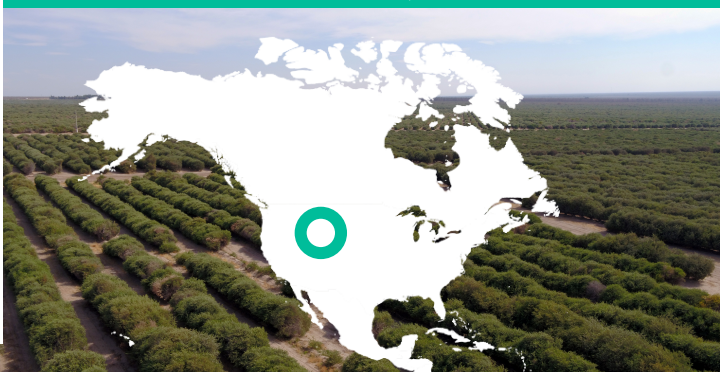
Fully secured supply chain

In 2012, Vantage™ started its From Farms to Formulations™ initiative to provide total transparency of the supply chain of jojoba oil. Our jojoba is harvested at Vantage™ owned and operated farms and the oil is processed and purified at our facilities. We carry safety stocks of unprocessed seeds and jojoba oil all year long in order to supply our customers without interruption. As the only supplier with geo-diversified farms in Argentina and USA, and a global network of 18 warehouses, Vantage™ is committed to supporting its clients with its global reach and local touch.

Agrinsa farm, Argentina



El Niño farm, USA



our commitment to jojoba oil

Since we started on our journey to become the leading supplier of jojoba oil, Vantage™ has continuously invested in operations in order to meet the highest standards for sustainable farming. Vantage™ also conducts in-depth research and innovation work in order to offer our customers new innovations to make their formulations stand out.

COMMITMENT TO LOCAL COMMUNITIES

- Operating in Arizona since 1978 and in Argentina since 1994.
- Harvested and crushed in Arizona and Argentina, refined in the USA
- 2nd most economically valuable native crop for the state of Arizona
- Continuous investment in new employee housing at the farms
- On-going work with Fair For Life™

COMMITMENT TO SUSTAINABLE FARMING PRACTICES

- State-of-the art drip irrigation systems
- 100% ground mineral content replenishment
- NOP Organic certification
- COSMOS certification
- Non-GMO

COMMITMENT TO THE BEAUTY INDUSTRY

- 2 farms in Arizona and Argentina for supply security
- 3,000 acres of jojoba farms
- 13% of jojoba profit reinvested in R&D
- 70+ derived ingredients

All data, including the formulations and procedures discussed herein, to the knowledge of Vantage™, are believed to be correct, reliable and accurate. Please note, however, that Vantage™ does not warrant or guarantee any accuracy, reliability or completeness of the information contained herein. It is the user's responsibility to determine the suitability and completeness of such information for the user's particular use (including performing any necessary confirmatory tests). Vantage™ is not responsible or liable for any loss or damage that may occur from the use of this information, nor do we warrant against any patent infringement. Nothing contained herein shall be construed as providing any permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.

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