



JD Jojoba Oil

NATURAL LIQUID WAX FOR ETHICAL AND CLEAN COSMETICS

JD Jojoba Oil is 100% natural, cold-pressed, rich in Omega-9 and Vitamin E, grown and produced under strict sustainable practices, providing skin barrier improvement, superior moisturizing effect and incomparable oxidative stability.

Unlike other natural oils, JD Jojoba Oil is not an oil - it's a liquid wax that mimics 30% of human sebum, is easily absorbed, doesn't leave a greasy residue, and is the ideal ingredient for multiple applications.

HOLISTIC APPROACH FROM SEED TO OIL

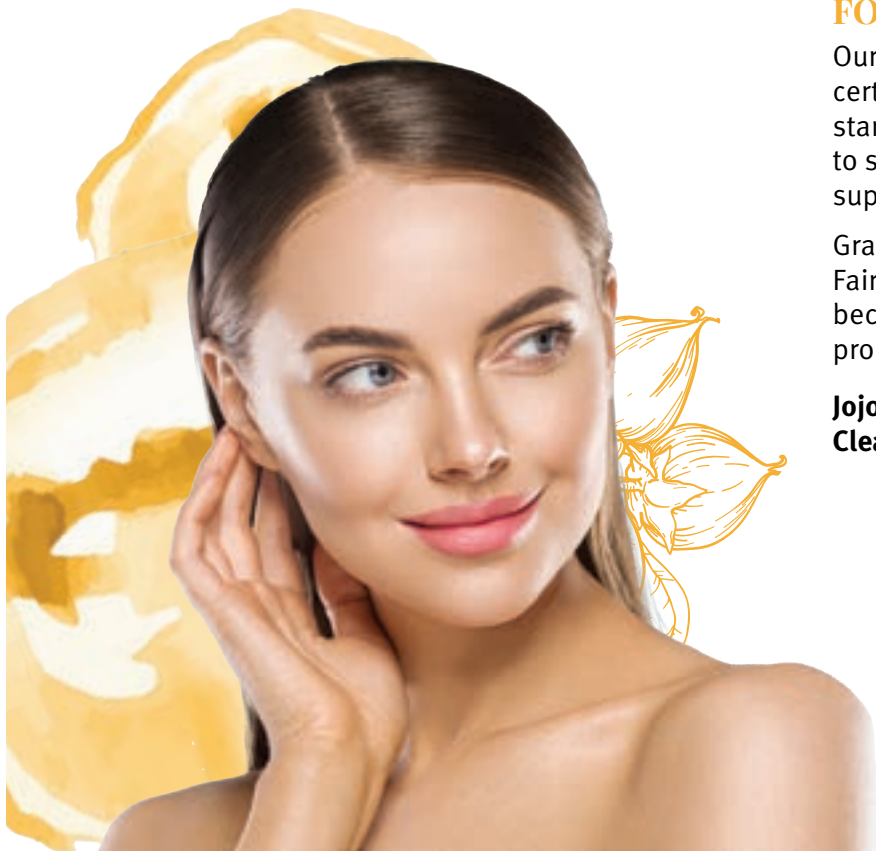
We take a holistic approach to sustainability and social responsibility throughout all stages of manufacturing, from aspiration, cultivation, production, and supply chain - it's reflected in every aspect of what we do day by day, year on year.

COMMITTED TO NURTURE THE PLANET FOR FUTURE GENERATIONS

Our ingredients are produced under the most stringent certification protocols and meet rigorous quality standards with a fully automated process, designed to support the rapid global demand and ensure stable supply in terms of quality and availability.

Granted 10 globally recognized certifications, including Fair for Life, Ecovadis, and Ecocert, Jojoba Desert has become the leading company offering end-to-end production coverage and traceability.

Jojoba Desert. Creating a Green Path for Clean Cosmetics.





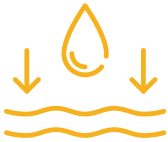
KEY BENEFITS



100% oil-free,
liquid wax



Natural, vegan,
and gluten free



Mimics the
human sebum



Contains Omega 9
& Vitamin E



High resistance
towards oxidation



Long shelf life of
at least 3 years



Non-comedogenic,
Non-irritant
properties



Safe to use
for all skin types



Anti-inflammatory
effect



Wound-healing
properties



Biodegradable



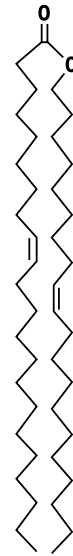
Microbiome friendly

MOLECULAR STRUCTURE COMPARISON

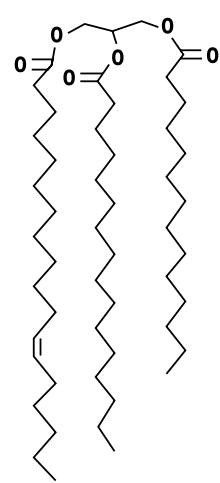
JOJOBA WAX



HUMAN SEBUM



TRIGLYCERIDE



INCI name: Simmondsia Chinensis (Jojoba) Seed Oil

CAS No.: 90045-98-0/61789-91-1

Description: Extra virgin liquid wax, obtained from natural Jojoba seeds

Production method: Cold Press

APPLICATIONS

- Skin Care
- Bath & Body
- Hair Care
- Nail & Cuticle Care
- Sun Care
- Color Cosmetics
- Baby Care

GRADES:

JD Jojoba Golden Oil

JD Jojoba Organic Golden Oil

JD Jojoba Colorless Oil

JD Jojoba Organic Colorless Oil

All grades available in odorless version

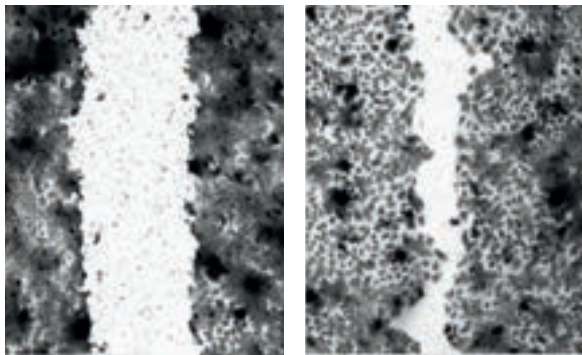


HEALING EFFECTS - STIMULATING COLLAGEN SYNTHESIS

In a study published by E. Ranzato in the Journal of Ethnopharmacology, it was found that Jojoba oil:

1. Accelerates wound healing by stimulating collagen synthesis in fibroblasts, aiding new skin formation.
2. Is a non-toxic substance, thus can be used safely on injured skin.

Skin repairing properties



CONTROL

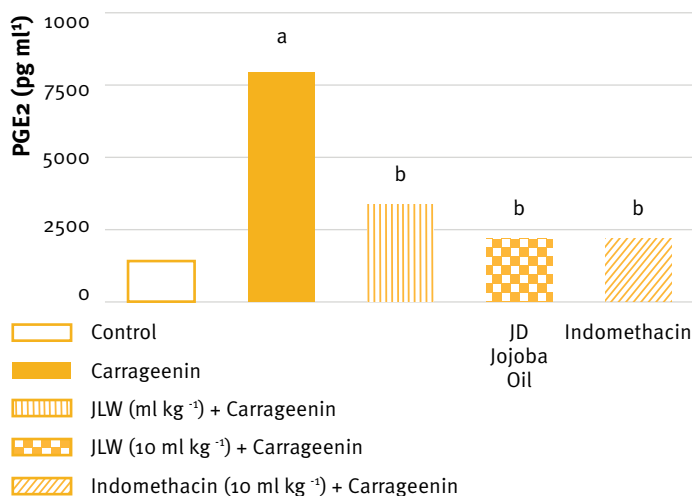
+1% JOJOBA OIL

6h at 37°C after wounding

Ref. E. Ranzato, Journal of Ethnopharmacology, 2011, 134, 443-449

ANTI-INFLAMMATORY ACTIVITY

In a study published by R. Habashy in the Pharmacological Research Journal, it was found that Jojoba Oil applied on irritated skin exerts anti-inflammatory activity, similar to an anti-inflammatory drug (NSAID) used to relieve pain and swelling.



Ref. R. Habashy, Pharmacological Research, 2005, 51, 95-105

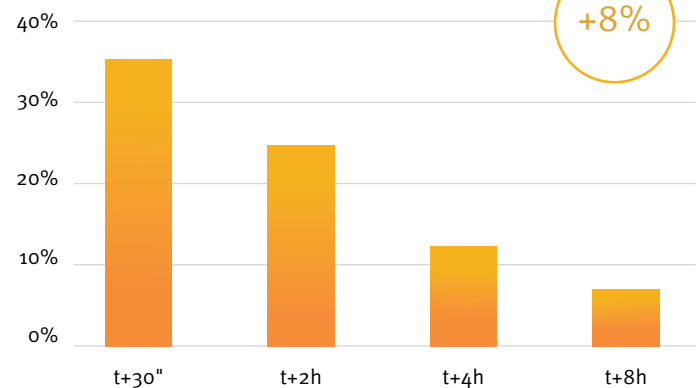
IMPROVING SKIN BARRIER

As skin barrier is the skin's first line of defense against external aggressors such as bacteria, irritants, and pollution, it is also responsible for retaining moisture.

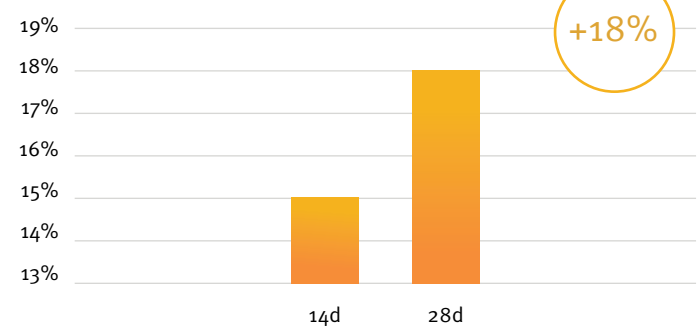
Jojoba oil is known for its unique contributions to the vitality of the skin, so we conducted a series of clinical studies to define the effects of JD Jojoba Golden Oil on skin barrier and water loss prevention.

Skin Barrier Improvement (TEWL)

Short-term skin barrier improvement



Long-term skin barrier improvement



Study design:

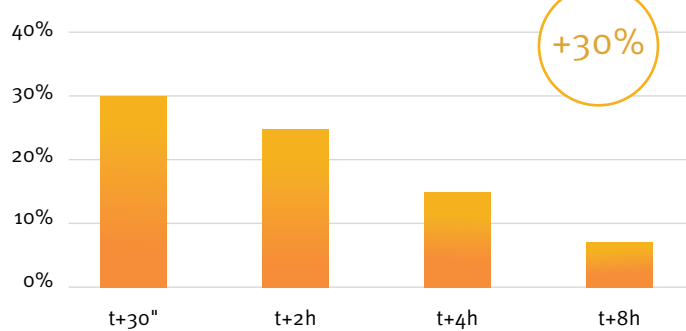
- › 22 female panelists (average age 50) with normal and dry skin types
- › 28 days of twice a day application as a moisturizer
- › Measurement zones: face for the long-term and forearm for short-term





Superior Moisturizing Effect

Hydration level by Corneometer®



Study design:

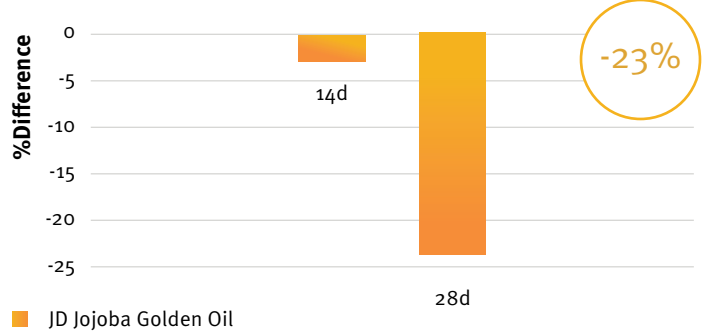
- > 22 female panelists (average age 50) with normal and dry skin types
- > Measurement zone: forearm

SEBUM SECRETION REDUCTION, NON COMEDOGENIC AND NON ACNEGENIC

One of the most common dermatologic concerns is oily skin. Oily skin is typically characterized by increased sebum secretion, meaning over-active sebaceous glands produce excess oil on the face, resulting in persistently shiny or greasy appearance. Neglecting oily skin may result in clogged and enlarged pores, and dead skin cells may accumulate. Blackheads, pimples, and other types of acne are also common with this skin type.

A study was conducted to evaluate the effect of JD Jojoba Golden Oil on sebum secretion.

Sebum Secretion Reduction



Study design:

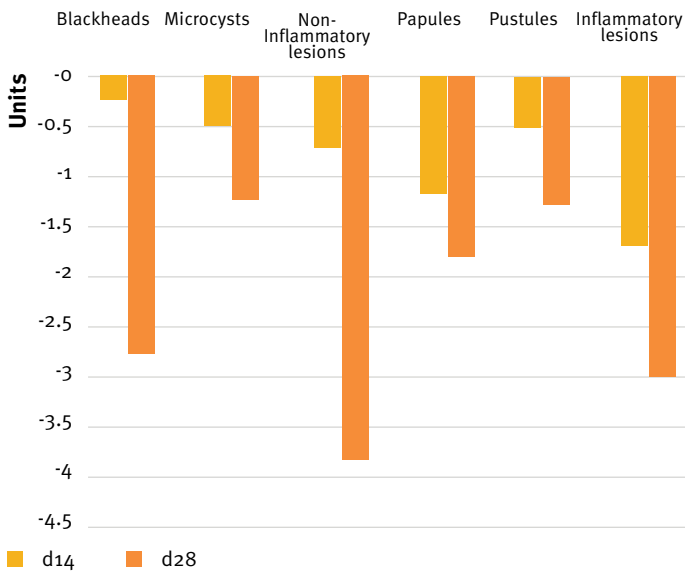
- > 20 female panelists (average age 45) with combination and oily skin types
- > 28 days of twice a day application as a moisturizer





Non Comedogenic and Non Acnegenic

Based on the previous test that clearly indicates the ability of JD Jojoba Golden Oil to reduce sebum secretion, the examination of its effectiveness for acne-prone skin was required, since acne-prone skin conditions can be improved by balancing the sebum secretion.



Study design:

Clinical study with 20 female volunteers (average age 45) with combination to oily facial skin with acne grade 1 to 2 on the GEA scale, 28 days of twice a day application.

JD Jojoba Golden Oil has anti-acneic potential:

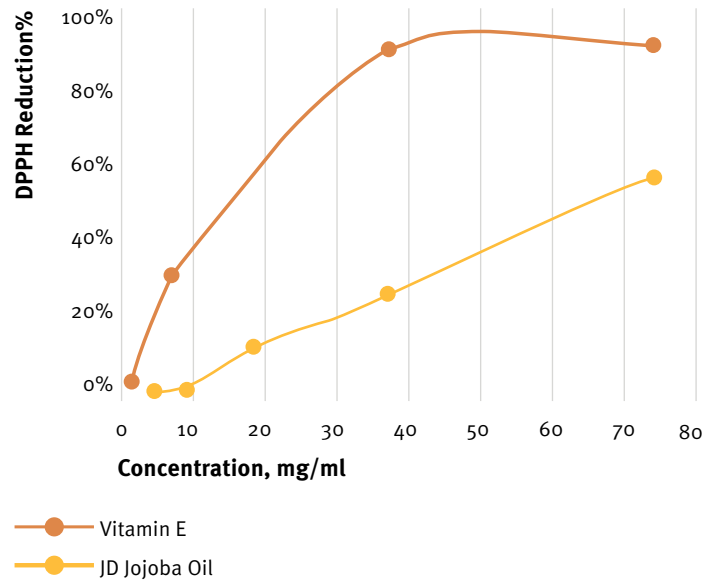
an excellent dermatological tolerance for combination to oily facial skin.

HIGH OXIDATION STABILITY

Efficient Antiradical Activity

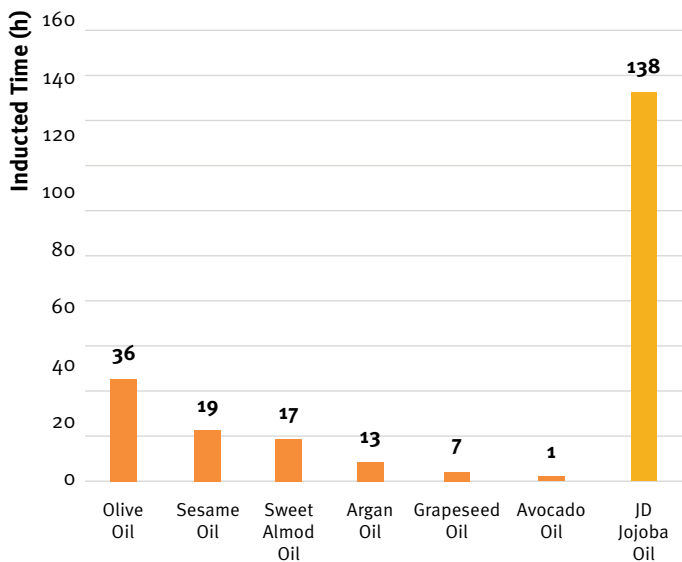
JD Jojoba Oil has shown enhanced antioxidant activity providing efficient protection from free radical damage.

Antiradical Activity



Highest Oxidation Stability Among Vegetable Oils

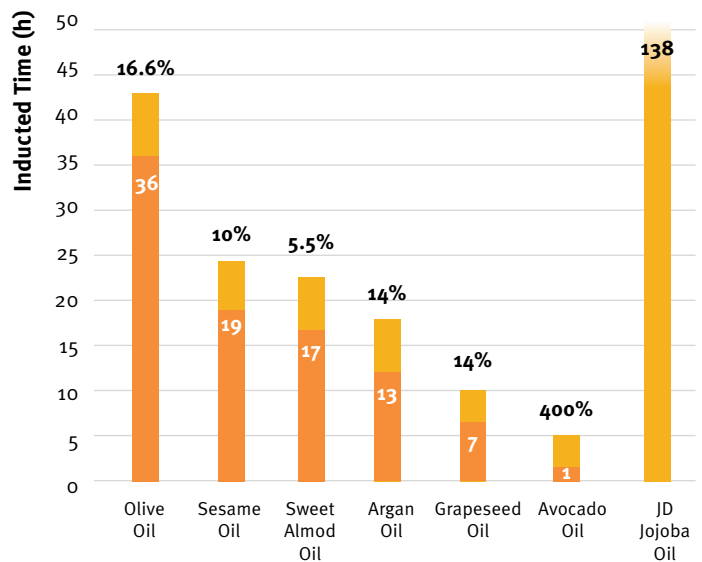
Jojoba oil is one of the most stable natural oils on the market, and its stability could prove critical in creating formulations with long shelf-life. In a recent study, JD Jojoba Oil showed the highest oxidation stability among tested oils.



The oxidative stability was determined using Rancimat methods at 110° C in collaboration with Agricultural Research Organization - the Volcani Center, Israel

Improves Oxidative Stability of Other Carrier Oils

Not only was JD Jojoba Oil shown to have outstanding stability, but adding JD Jojoba Oil to other carrier oils, improved their stability to much higher levels.



The oxidative stability was determined using Rancimat methods in collaboration with Agricultural Research Organization - the Volcani Center, Israel



POSITIVE INFLUENCE ON THE MICROBIOME

Several tests were performed on sebaceous and dry skin examining various aspects of the microbial quality of the product resulting in the determination of a microbiome-friendly ingredient.

The influence of the product on natural, healthy skin balance.

The ingredient does not disturb the balance between skin-friendly and skin-harmful bacteria.

The influence of the product on the bacterial diversity of the specific body region.

Each body region is colonized by a certain microbial composition and maintaining this diversity is important for healthy skin. The test examines the influence of the product on the respective microbial mixture. The aim was to find as many key organisms as possible after contact with the ingredient and was successfully achieved.

The influence of the product on the growth behavior of the microbes of the specific body region.

In addition to the diversity of the specific microbiome, the growth or number of different key organisms should not be influenced by the product. The key organisms are brought into direct and indirect contact with the product and their growth is observed.

The results of all tests showed that JD Jojoba Oil has a positive influence on the microbiome in both adult (face and skin) and infant skin:

- The ingredient leaves the skin microbiome intact.
- The ingredient respects the balance of the skin microbiome.
- The ingredient respects the natural, healthy microbiome of the skin, both on the surface and in the deeper layers of the skin.
- The ingredient is gentle on the skin microbiome.



HAIR CARE BENEFITS

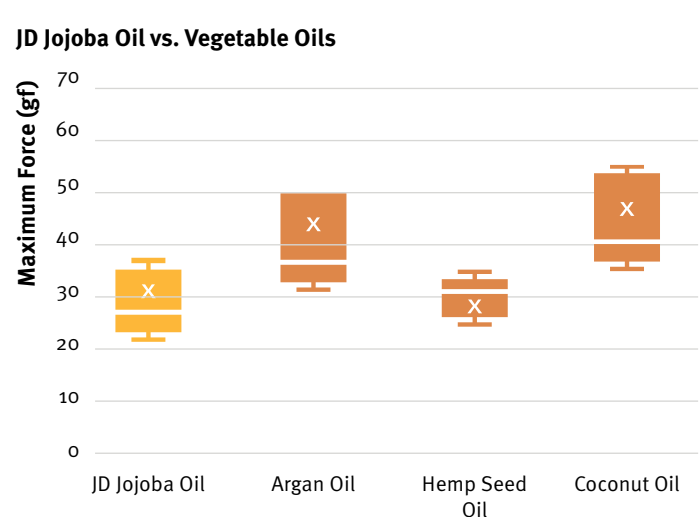
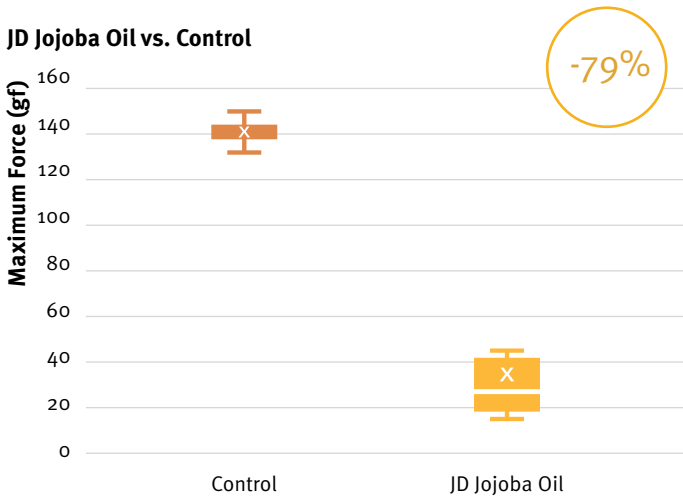
The environment can be harsh on hair, and as a result, hair care brands are in a race to solve common challenges like taming frizz, restoring shine and preventing breakage of the hair.

To evaluate the effect of JD Jojoba Oil on these hair care challenges, in compared to other oils which are commonly used, 3 experiments were conducted.

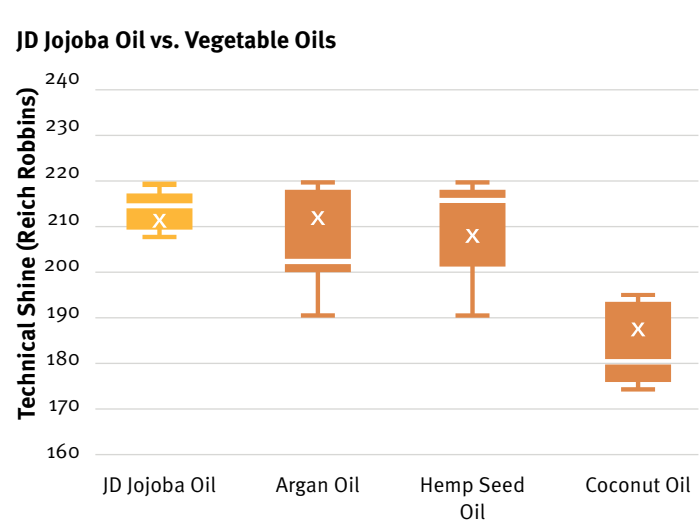
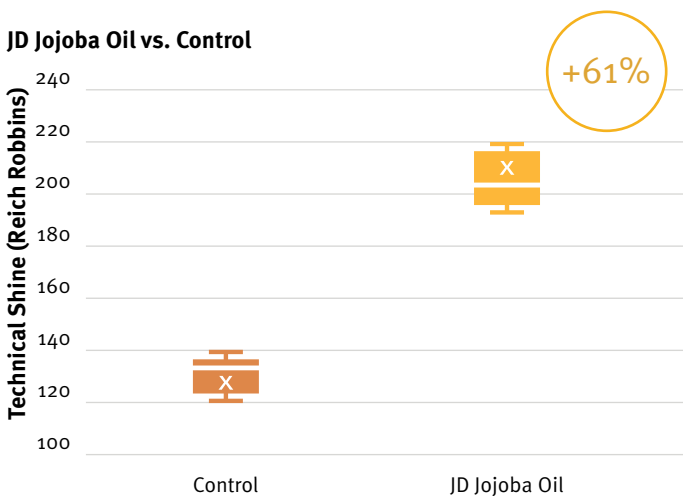
Excellent Conditioning Effect – Measurement of Dry Combing Forces

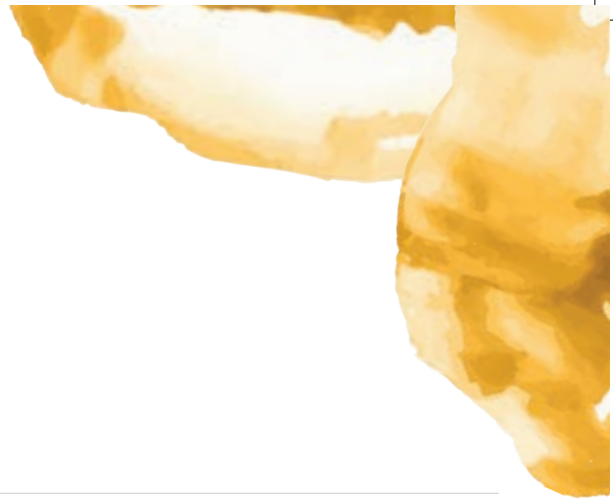
Study design:

- › All tresses were washed with 15% SLES and left overnight to dry.
- › Vegetable oils, 5% (by weight of the tress) were applied on dry hair.
- › Dry tresses washed with 15% SLES were used as Control.
- › 8 tresses were used per treatment group. 6 measurements were taken.



Excellent Hair Shine Performance





Frizz Reduction Vs. Time

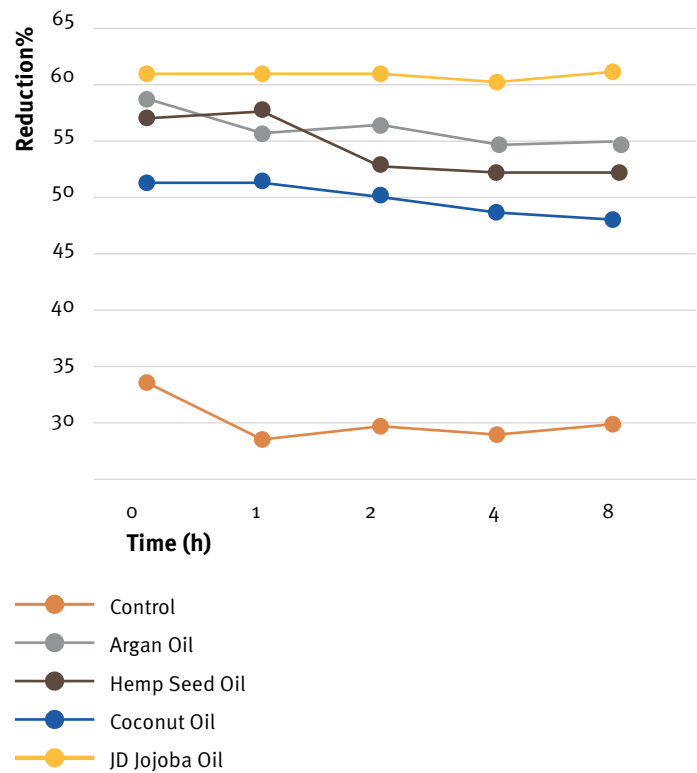
This study was conducted to evaluate JD Jojoba Oil for its potential to reduce frizz over the course of 8 hours compared to control shampoo alone and other vegetable oils which are widely used in hair care products.

Study Design:

- › All tresses were washed with 15% SLES and left overnight to dry.
- › Vegetable oils, 5% (by weight of the tress) were applied on dry hair.
- › All groups of tresses were equilibrated overnight in a controlled humidity chamber 30% RH and the initial post treatment was performed.
- › Humidity was increased to 80% RH and images were taken after 1, 2, 4 and 8 hours.
- › Dry tresses washed with 15% SLES were used as Control.
- › 8 tresses were used per treatment group to evaluate product performance and to ensure statistical relevance.

As a result, all oil systems showed a noticeable increase in straightening hair and improving resistance to spontaneous frizz even under very high humidity conditions compared to that of control groups.

However, after 8 hours Argan, Hemp Seed and Coconut oil groups showed slow and continuous increase in frizz, while JD Jojoba Oil treated tresses showed resistance to spontaneous frizz during the measurement period.



JD JOJOBA OILS & DERIVATIVES

| | PRODUCT | INCI NAME | CAS # |
|----------------------|--|--|--|
| JD PURE | JD Jojoba Golden Oil (Odorless version available) | Simmondsia Chinensis (Jojoba) Seed Oil | 90045-98-0/ 61789-91-1 |
| | JD Jojoba Colorless Oil (Odorless version available) | Simmondsia Chinensis (Jojoba) Seed Oil | 90045-98-0/ 61789-91-1 |
| | JD Jojoba Organic Golden Oil (Odorless version available) | Simmondsia Chinensis (Jojoba) Seed Oil | 90045-98-0/ 61789-91-1 |
| | JD Jojoba Organic Colorless Oil (Odorless version available) | Simmondsia Chinensis (Jojoba) Seed Oil | 90045-98-0/ 61789-91-1 |
| JD FUNCTIONAL | JD Jojoba Golden Butter | Simmondsia Chinensis (Jojoba) Seed Oil, Cera Alba, Hydrogenated Vegetable Oil | 90045-98-0/ 61789-91-1; 8012-89-3; 68334-28-1 |
| | JD Jojoba Colorless Butter | Simmondsia Chinensis (Jojoba) Seed Oil, Cera Alba, Hydrogenated Vegetable Oil | 90045-98-0/ 61789-91-1; 8012-89-3; 68334-28-1 |
| | JD Jojoba Organic Butter | Simmondsia Chinensis (Jojoba) Seed Oil, Cera Alba, Hydrogenated Vegetable Oil | 90045-98-0/ 61789-91-1, 8012-89-3; 68334-28-1 |
| | JD Jojoba Butter Vegan | Simmondsia Chinensis (Jojoba) Seed Oil, Stearyl Stearate (and) Rhus Verniciflua Cera (and) Copernieia Cerifera Cera, Hydrogenated Vegetable Oil | 90045-98-0/61789-91-1, 97404-33-6, 8015-86-9, 68334-28-1 |
| | JD Jojoba Aqua Cream Base | Aqua, Simmondsia Chinensis (Jojoba) Seed Oil, Xanthan Gum, Lecithin, Sclerotium Gum, Pullulan, Cetyl Alcohol, Glyceryl stearate citrate, Polyglyceryl-3 stearate, Xylitylglucoside, Anhydroxylitol, Xylitol, Hydrogenated lecithin, Tocopherol, Sodium Benzoate, Potassium Sorbate | 90045-98-0/ 61789-91-1, 11138-66-2, 8002-43-5, 39464-87-4, 9057-02-7, 36653-82-4, 6-13-55840, 27321-72-8, 53448-53-6, 87-99-0, 92128-87-5, 59-02-9, 532-32-1, 590-00-1 |
| | JD Jojoba Oil Cream Base | Simmondsia Chinensis (Jojoba) Seed Oil, Polysorbate 20, Bees Wax, Propanediol, Tocopherol | 90045-98-0/ 61789-91-1, 9005-64-5, 59-02-9, 8006-40-4, 504-63-2 |
| | JD Jojoba Silk-like Powder | Tapioca Starch, Simmondsia Chinensis (Jojoba) Seed Oil | 9005-25-8; 90045-98-0/ 61789-91-1 |
| | JD Jojoba Hair Complex | Simmondsia Chinensis (Jojoba) Seed Oil, Cocos Nucifera (Coconut) Oil, Cannabis Sativa Seed Oil, Solanium Lycopersicum Seed Oil (and) Caprylic/Capric Triglyceride (and) Vaccinium Macrocarpon Seed Oil (and) Helianthus Annuus Seed Oil (and) Tocopherol | 90045-98-0/ 61789-91-1, 8001-31-8, 89958-21-4, 90131-63-8 / 73398-61-5 / 91770-88-6 / 8001-21-6 / 10191-41-0 |
| | JD Lusteris™ | Jojoba Esters, Jojoba Alcohol, Propanediol, Tocopherol | 61789-91-1; 67762-27-0; 504-63-2; 1406-18-4 |

| DESCRIPTION | Benefits | | | | | Applications | | | | | Formulation Types | | | | | | | | |
|---|------------|-----------|----------------|-----------|---------------------------|---|-----------|-----------|----------|-----------|-------------------|----------|----------|--------|-------------------|-----------------|-----------------|---------------|---|
| | Emolliency | Softening | Moisturization | Smoothing | Texture | Skin Feel | Skin Care | Anhydrous | Lip Care | Hair Care | Cleansers | Sun Care | Emulsion | Sticks | Surfactant System | Color cosmetics | Pressed Powders | Baby products | |
| Pure natural liquid wax, composed of esters extracted from jojoba (Simmondsia Chinensis) seeds. Rich clear golden liquid with extraordinarily beneficial properties. Safe for all skin types. | • | • | • | • | Golden oil | Non-greasy, smooth, elegant | • | • | • | • | • | • | • | • | • | • | • | • | |
| Pure natural liquid wax, composed of esters extracted from jojoba (Simmondsia Chinensis) seeds. Rich colorless liquid with extraordinarily beneficial properties. Safe for all skin types. | • | • | • | • | Colorless oil | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Pure organic natural liquid wax, composed of esters extracted from jojoba (Simmondsia Chinensis) organic seeds. Rich golden liquid with extraordinarily beneficial properties. Safe for all skin types. | • | • | • | • | Golden oil | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Pure organic natural liquid wax, composed of esters extracted from jojoba (Simmondsia Chinensis) organic seeds. Rich colorless liquid with extraordinarily beneficial properties. Safe for all skin types. | • | • | • | • | Colorless oil | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Unique blend of JD Jojoba Golden Oil and other natural waxes creating a soft, silky, light yellow butter. The butter fast absorbs to the skin, nourishes it and leaves a soft and silky feeling. | • | • | • | • | Light yellow butter | Non-greasy, non-sticky, smooth and fast absorbing | • | • | • | • | • | • | • | • | • | • | • | • | |
| Unique blend of JD Jojoba Colorless Oil and other natural waxes, creating a soft, silky, light colorless butter. The butter is quickly absorbed by the skin, nourishing it and leaving a soft and silky feeling. | • | • | • | • | White butter | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Unique blend of JD Jojoba Organic Golden Oil and other natural waxes, creating a soft, silky, light yellow butter. The butter is quickly absorbed by the skin, nourishing it and leaving a soft and silky feeling. | • | • | • | • | Light yellow butter | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Unique blend of JD Jojoba Colorless oil and other Vegan natural waxes creating a soft, silky, light colorless butter. The butter is quickly absorbed by the skin, nourishing it and leaving a soft and silky feeling. | • | • | • | • | White butter | | • | • | • | • | • | • | • | • | • | • | • | • | • |
| A light and smooth oil-in-water base cream that combines the unique properties of jojoba oil with additional natural based oils, creating a ceramic texture that is slightly-absorbed by the skin. Can accommodate up to 20% oil, wax, silicon, water extracts, active ingredients and more, creating a one-of-a-kind moisturizing and emollifying cream. | • | • | • | • | Low viscosity white cream | Smooth light cream, fast absorption | • | • | • | • | • | • | • | • | • | • | • | • | |
| A luxuriously light mixture of jojoba oil a mild surfactant ingredients, which can be used as a fast absorbing base for creams, non-sticky lotions and washed products, leaving the skin with a silky, soft texture. Can accommodate up to 80% extra aqueous or oily vitamins, etc. | • | • | • | • | Light yellow butter | Non-sticky, smooth elegant | • | • | • | • | • | • | • | • | • | • | • | • | |
| Jojoba Starch (Tapioca base). It is non-GMO, aluminum-free, enabling it to give off a velvety and soft sensation and enhanced compatibility with oils, water, emulsifiers & surfactants. | • | • | • | • | White powder | Smooth, Soft Starch | • | • | • | • | • | • | • | • | • | • | • | • | |
| An exclusive complex of natural oils and vitamins essential for healthy hair and scalp, that provide moisture balance for the scalp with proven benefits for hair such as conditioning, heat protection and anti-frizz. | • | • | • | • | Golden oil | Non-greasy, smooth, elegant | • | • | • | • | • | • | • | • | • | • | • | • | |
| A multi-functional emollient with a superior sensory effect, derived from Jojoba oil and ideally used as a non-volatile low viscosity silicone alternative. This 100% oil-free emollient, provides the skin with compounds ideal for maintaining an optimum hydration level, providing sebum control properties, deep soothing effect, acne-prone skin improvement benefits, as well as hair and scalp protection. It is biodegradable, responsibly sourced and eco-friendly. | • | • | • | • | Clear liquid | Silky, Smooth, Soft | • | • | • | • | • | • | • | • | • | • | • | • | |





CARRYING YOUR CARE FROM SEED TO OIL

As the world's leading Jojoba oil manufacturer, Jojoba Desert is committed to producing the highest quality Jojoba oil available today.

We provide a variety of 100% natural Jojoba oil grades, derived products, and naturally sourced active ingredients to top international cosmetic brands and manufacturers.

We offer end-to-end production coverage and traceability with a stable & continuous, year-round supply from our strategically placed warehouses in the USA, Europe, Asia & the Middle East. measurement period.

COMMITTED TO SUSTAINABILITY

Adopting the United Nations' Sustainable Development Goals, Jojoba Desert is committed to nurture the planet for a better future for the next generations.

We uphold social, environmental, and economical sustainability programs which include giving back to the community, unparalleled metrics for emissions and water preservation, as well as supporting the "Be the Change" movement of the 17 UN Sustainable Development Goals.

The information and data included herein, are provided to the current state of knowledge of Jojoba Desert (A.C.S) Ltd. (hereinafter "JD"), and are intended to provide general information about JD's products. It is the user's responsibility to determine the suitability and completeness of such as information for the user's particular use (including performing any necessary confirmatory test). Due to possible changes in Jojoba Desert's products and applicable national and international regulations and laws, the condition or composition of the said products may change. Users must obtain and follow latest versions of relevant safety data sheets before using or handling any of the JD products. JD makes no warranties, express or implied, it does not guarantee the accuracy of the information provided above, nor does it undertake any responsibility in connection with any use of the information contained herein. JD will not be responsible or liable for any loss or damage that may occur from the use of this information. Nothing contained herein shall be construed as providing any permission, recommendation, or inducement to practice any patented invention without permission of the patent owner. For further information, please contact JD at contacts@jojobadesert.com



JOJOBA DESERT
Leading The Next Generation



Certified organic for NOP by Control Union Certifications 862851

Jojoba Desert (A.C.S) Ltd. | Kibbutz Hatzetim, D.N.Hanegev, 8542000 | www.jojobadesert.com

Israel Office: +972 8 6473296 | USA Office (NJ): 201-431-9800

