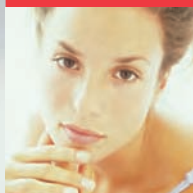


ISP

BOTANICALS

Vincience
ACTIVES

D'Orientine™ S

Description

Date palm kernel extract with clinically proven anti-wrinkle efficacy; its free radical scavenging properties protect skin from environmental sources of aging and wrinkling.

D'ORIENTINE S is a patented, plant-derived active ingredient extracted from the date-palm kernel (*Phoenix Dactylyfera*). Its properties are based on its unique complex of 7 compounds acting in synergy to delay the visible effects of aging:

| | | | |
|----------------------|------------------------------|---------------------|----------------------------|
| Phytosterols | Barrier function | Policosanols | Neuro-immune system |
| Phytosteroids | Hormone-like activity | Tocotrienols | Antioxidant |
| Isoflavones | Anti-aging | Vitamin A | Antioxidant |
| Ursolic acid | Regenerating | | |

D'ORIENTINE S demonstrates significant anti-wrinkle, DHEA-like and antioxidant properties.

Properties

- Decreases skin wrinkles rapidly and significantly
- Slows the effects of aging better than DHEA on *ex-vivo* skin
- Increases type I collagen synthesis on *ex-vivo* skin
- Improves the natural defense mechanisms against oxidative stress (SOD and catalase)
- Reduces protein carbonylation
- Decreases lipid peroxidation
- Validated by ECOCERT

Cosmetic applications

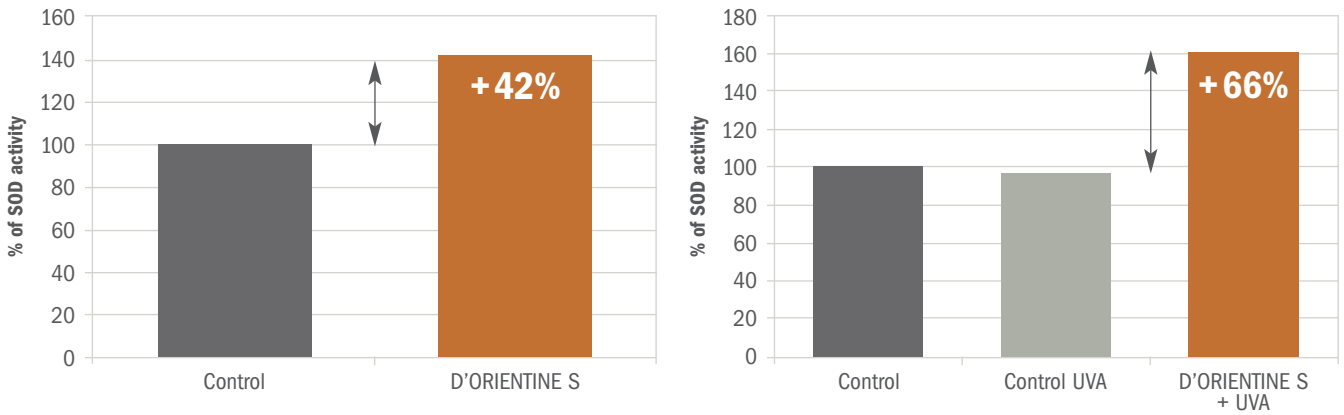
- Anti-aging products
- Anti-wrinkle products
- Smoothing products

ISP Vincience™ Actives

In-vitro efficacy: Anti-oxidant activity

1. Superoxide Dismutase (MnSOD) activity

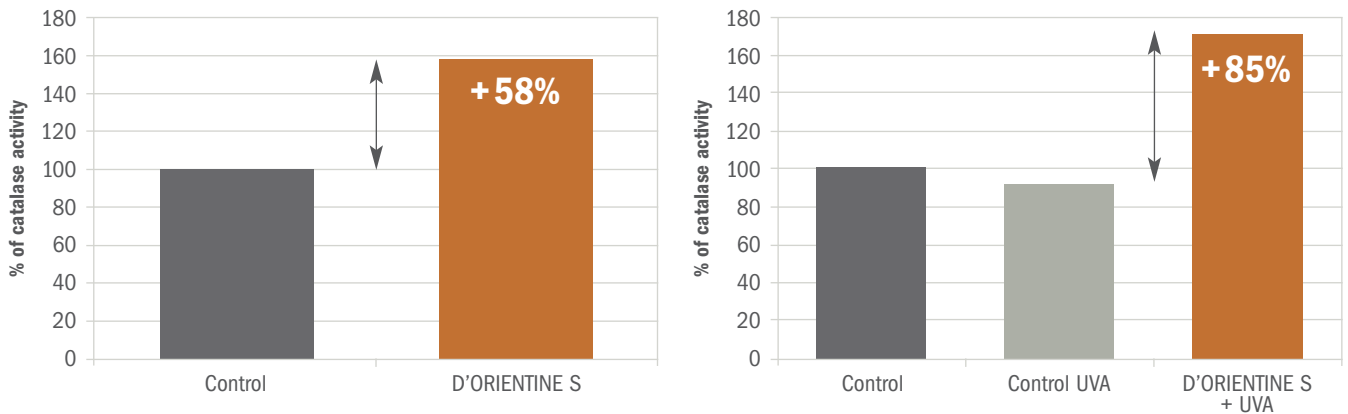
Cell culture: human fibroblasts **Product application:** D'ORIENTINE S 1%
Application time: 24 h **UVA dose:** 4 J/cm² **Evaluation:** electrophoretic MnSOD activity



D'ORIENTINE S greatly increases MnSOD activity. CuZn SOD activity is also increased (results not shown).

2. Catalase activity

Cell culture: human fibroblasts **Product application:** D'ORIENTINE S 1%
Application time: 24 h **UVA dose:** 4 J/cm² **Evaluation:** spectrophotometer



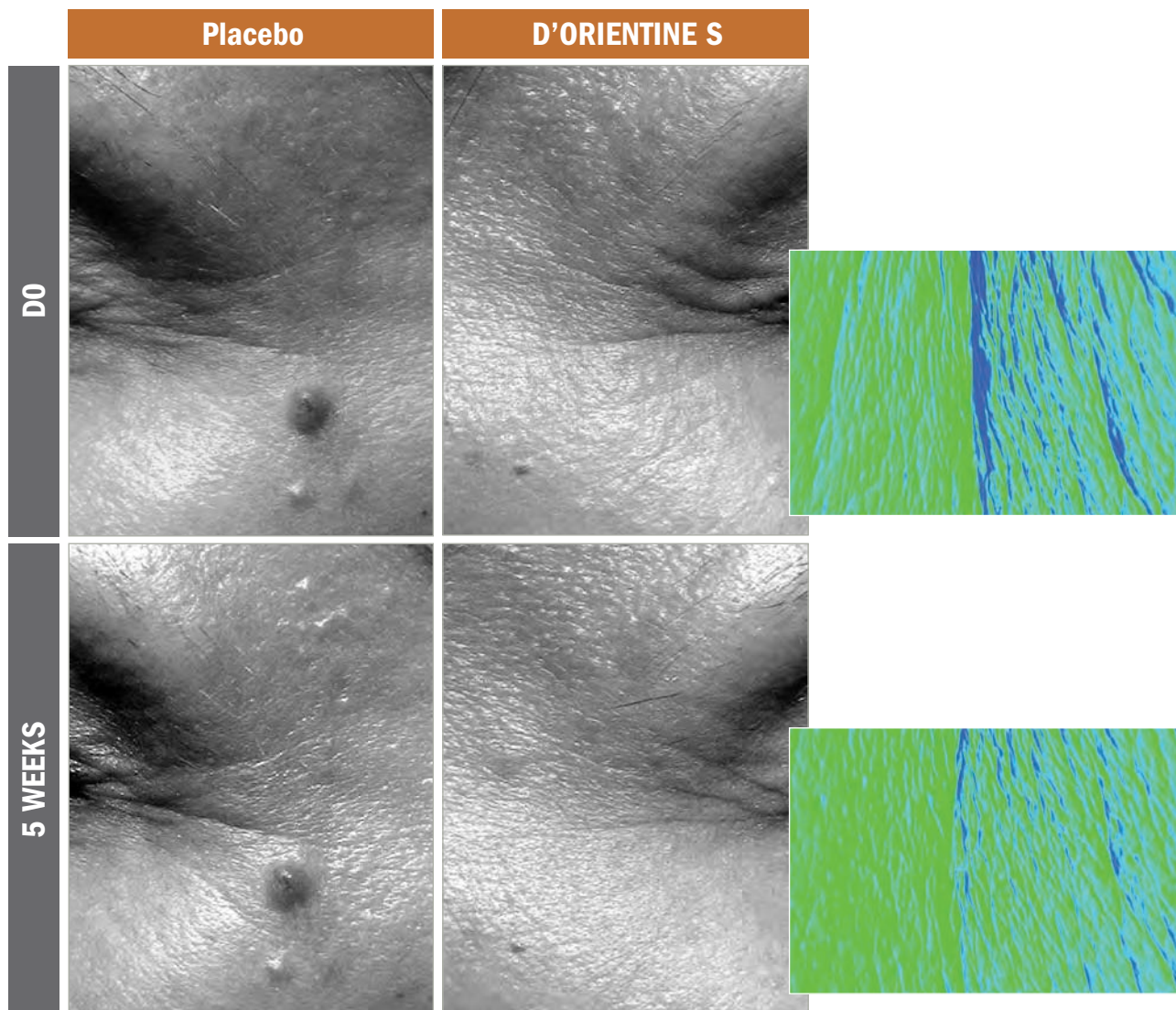
D'ORIENTINE S increases catalase activity, thus reinforcing the natural antioxidant defense system of the skin.



In-vivo: Anti-wrinkle effect

A double-blind clinical study was carried out on 10 healthy volunteers aged between 46 and 58.

A cream containing D'ORIENTINE S was applied for 5 weeks on the eye zone area. Evaluation was done using pictures, silicon replicas and statistical analysis.



The results show that D'ORIENTINE S significantly reduces the surface and depth of wrinkles and demonstrates very strong anti-aging properties.

Silicon replica results

| | Placebo | | | D'ORIENTINE S | | | Wilcoxon D33-D0 |
|----------------------------------|---------|-------|-------|---------------|-------|-------|--------------------|
| | D0 | D33 | %/D0 | D0 | D33 | %/D0 | |
| Total surface (mm ²) | 16.32 | 15.52 | -4.88 | 16.87 | 12.21 | -27.6 | P=0.038* |
| Depth (mm) | 92.6 | 97 | 4.75 | 93.8 | 90.5 | -3.52 | P=0.0231* |

* significant

The results show a 60% improvement in skin wrinkles and aspect in the side treated with D'ORIENTINE S.

Specifications

| | |
|-----------------------|-----------------------------|
| Form: | Oily solution |
| Color: | Light yellow to light green |
| Odor: | Light, characteristic |
| Solubility: | Oil soluble |
| Preservatives: | Preservative-free |

INCI Name

CAPRYLIC/CAPRIC TRIGLYCERIDE (AND) PHOENIX DACTYLIFERA
(DATE) SEED EXTRACT

Formulation Guidelines

- Add in oil phase at 65-70°C for o/w emulsion or post emulsification at or below 40°C in w/o emulsion
- Recommended use level: 1% - 2.5%, clinically tested at 2.5%

The above formulation information is for guideline purposes only. Some products may be formulated outside of the parameters of these guidelines. Please contact ISP Vincience for more specific information.



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