

FRENCH FIELDS UNSUNG

SEED

Alfalfa grows across 12,000–15,000 hectares in Centre-West, South-West, and South-East France, cultivated for forage and seed. Seed production is long and demanding, yet some seeds fail germination standards. Though healthy, they remain unsellable. Upcycling these seeds reduces waste, supports French growers, and strengthens local seed sovereignty.



INCI NAME : GLYCERIN (AND) WATER (AND) MEDICAGO SATIVA (ALFAFA) SEED EXTRACT

RECOMMENDED DOSE : UP TO 1%

ASPECT : YELLOW CLEAR LIQUID

SOLUBILITY : SOLUBLE IN WATER

ENERGY CONSUMPTION : 2,57 (kWh/kg)

WATER CONSUMPTION : 1,99 (kg/kg)

ISO : 16128 **NDI :** 1

ORIGIN : FRANCE





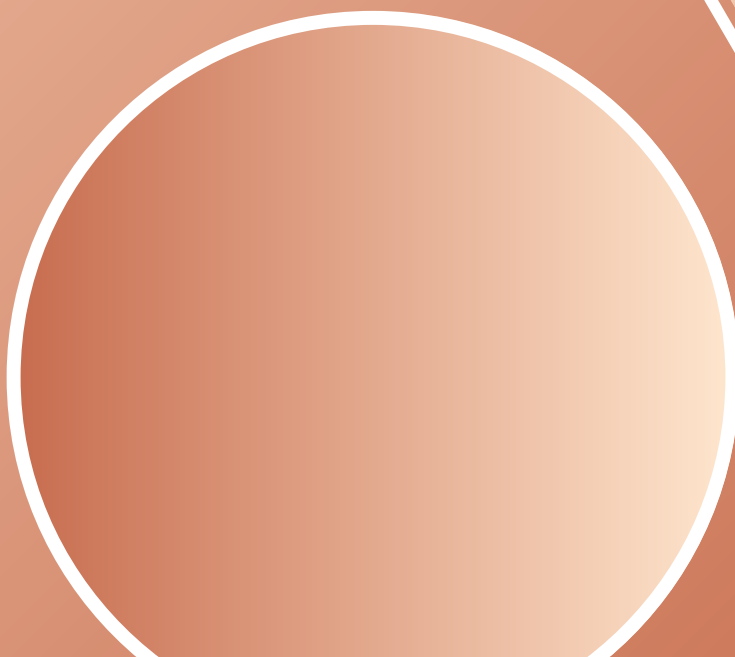
PROVENCE GOLDEN NUT

Almond production generates **2.6 million tons** of by-products yearly — **70% are hulls and shells**, mostly burned, though rich in cosmetic actives.

In **Provence**, almond trees thrive on sunlit limestone soils. The sector is reviving in **Vaucluse**, **Bouches-du-Rhône**, and **Alpes-de-Haute-Provence**, offering sustainable, local French almonds for cosmetic innovation.

ENERGY CONSUMPTION : 2,23 (kWh/kg)

WATER CONSUMPTION : 2,04 (kg/kg)





BIOTECHEMP

Longevity through low and high-tech



MULTI-TARGETED ACTION AGAINST THE HALLMARKS OF AGEING

BETTER RESULTS THAN RESVERATROL

HIGH-PERFORMANCE TECHNOLOGIES

Microwave
extraction
=
46 times more
concentrated*



Patented
technologies
-
INA wave®
-
SATIVITRO®



Energy
saving



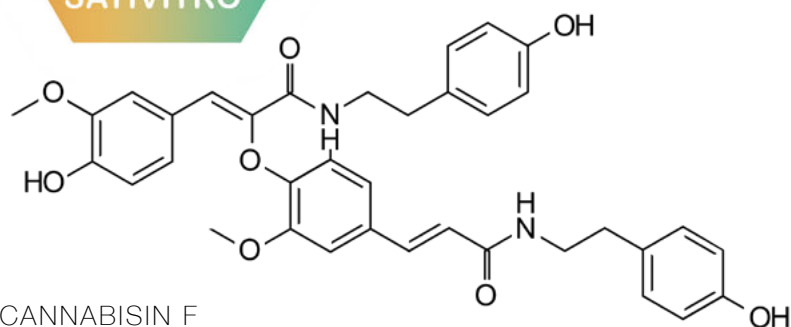
Faster
process



Better
yield



5 times
less CO₂



CANNABISIN F

French
Hemp

No
pesticides

Bioreactor
cultivation
= 100 X
Cannabisin



HALLMARKS OF AGING

Primary / Core mechanisms leading to dysfunction



Antagonistic / Factors exacerbating primary effects

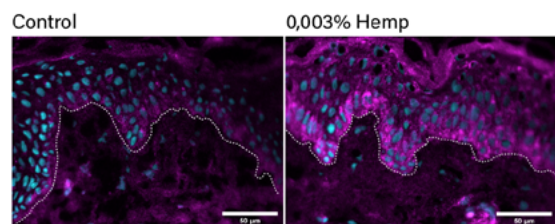
Integrative / Outcomes affecting overall aging



PRIMARY HALLMARKS

85%
EFFICACY AGAINST PROTEIN CARBONYLATION

PROTEIN CARBONYLATION : The accumulation of damaged proteins contributes to the loss of proteostasis and cellular dysfunction. This can directly affect cellular processes and trigger responses in antagonistic hallmarks.



LAMP2A : A decrease in the autophagy leads to the accumulation of damaged proteins and organelles, which can further interact with primary hallmarks by overwhelming cellular repair mechanisms.

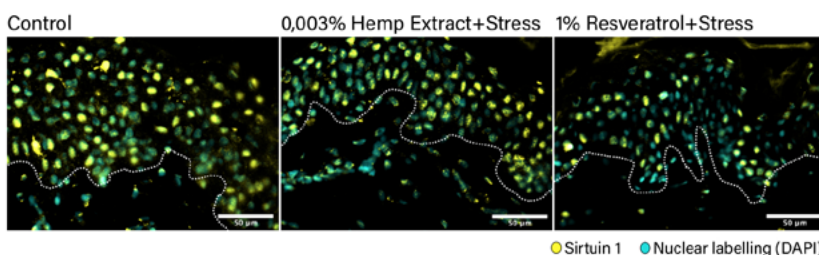
● LAMP2A ● Nuclear labelling (DAPI)

+47%
INDUCTION OF LAMP2A LEVELS

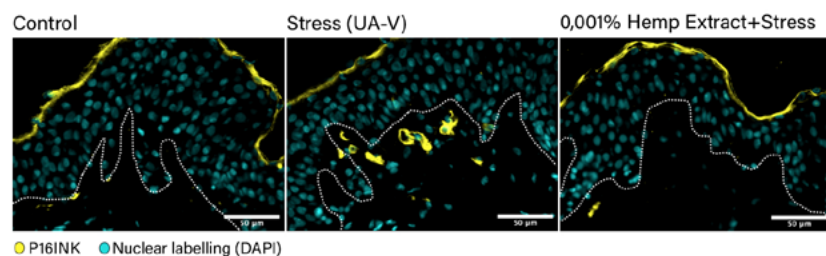
ANTAGONISTIC HALLMARKS

+15%
SIRTUIN INDUCTION COMPARED TO RESVERATROL

SIRT-1 loss affects nutrient-sensing pathways and epigenetic modifications, contributing to cellular senescence and inflammation. Reduced SIRT1 activity can exacerbate the effects of primary hallmarks.



● Sirtuin 1 ● Nuclear labelling (DAPI)



● P16INK ● Nuclear labelling (DAPI)

P16 leads to cellular senescence, where cells stop dividing, contributing to tissue dysfunction and inflammation. This interacts with integrative hallmarks by affecting tissue regeneration.

89%
EFFICACY AGAINST SENESCENT CELLS

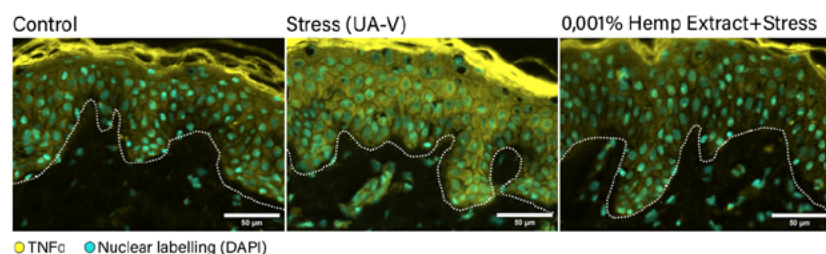
INTEGRATIVE HALLMARKS

95%
EFFICACY AGAINST KERATIN 14 REDUCTION

K-14 reduction affects the skin's structural integrity and regenerative capacity, contributing to ageing. Dysregulation of K14 can be influenced by the accumulation of senescent cells and inflammation from antagonistic hallmarks.



● Keratin 14 ● Nuclear labelling (DAPI)



● TNFα ● Nuclear labelling (DAPI)

TNF-α contributes to chronic inflammation, exacerbating tissue damage and interacting with both primary and antagonistic hallmarks by amplifying the inflammatory response.

95%
EFFICACY AGAINST TNF-α INDUCTION



PRIMARY
HALLMARKS:

85%

EFFICACY
AGAINST
PROTEIN
CARBONYLATION

ANTAGONISTIC
HALLMARKS :

+15%

SIRTUIN-1
INDUCTION
COMPARED TO
RESVERATROL

INTEGRATIVE
HALLMARKS:

95%

EFFICACY
AGAINST
KERATIN 14
REDUCTION

THE POTENTIAL OF PLANT BIOTECHNOLOGY



Combining advanced plant biotechnology and microwave-assisted extraction, this cannabisin-rich ingredient supports the longevity of the skin by maintaining proteostasis, stimulating autophagy and protecting against senescence.

INCI: Water & Pentylene Glycol
& Cannabis Sativa Root Extract

pH range of use: 4-10

Use level: 1-3%

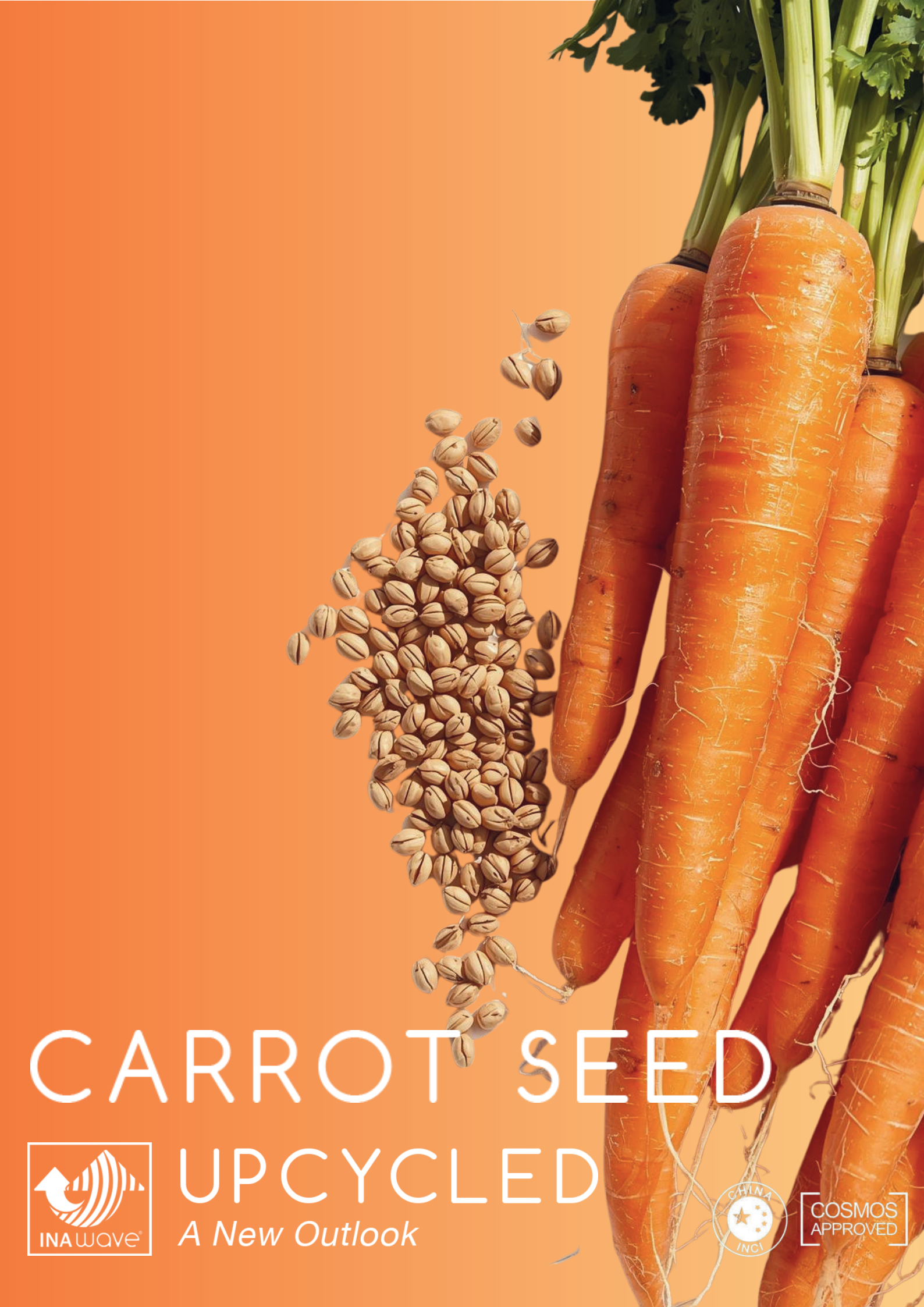
Solubility: Soluble in water

Aspect: Clear liquid

ISO 16128 NI: 0,70 **NDI:** 1



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CARROT SEED



UPCYCLED

A New Outlook



INCI NAME : GLYCERIN (AND) WATER
(AND) DAUCUS CAROTA SATIVA (CARROT)
SEED EXTRACT

RECOMMENDED DOSE : UP TO 3%

ASPECT : YELLOW-ORANGE CLEAR LIQUID

SOLUBILITY : SOLUBLE IN WATER

ENERGY CONSUMPTION : 10,82 (kWh/kg)

WATER CONSUMPTION : 5,96 (kg/kg)

ISO : 16128 **NDI :** 1

ORIGIN : FRANCE

87%

ANTIOXYDANT

73%

**ANTI -
INFLAMMATORY**

65%

HYDRATION

45%

ENERGIZING

40%

PROTECTION

LOIRE LOST HARVEST

Carrot seeds come from batches rejected due to low germination rates. Though botanically sound, they remain unused. In France, carrots are the second most consumed vegetable, with 9 kg per person annually. Harvested across **Loire and nearby regions**, over **10 tons of downgraded seeds** are available each year. Upcycling them gives new life to this overlooked stream and supports the French seed industry.



**COSMOS
APPROVED**

OCCITANIE ROOTED HERITAGE



In southern France's **Occitanie** region, the **Cévennes chestnut forests** span **60,000 hectares**. This self-regenerating ecosystem provides **100,000 m³ of wood** annually, supporting local industries. The bark, a sawmill by-product, is reused as renewable energy—an example of circular economy. Choosing Cévennes chestnut means embracing sustainability, authenticity, and nature.

ENERGY CONSUMPTION : 11,73 (kWh/kg)

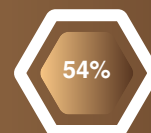
WATER CONSUMPTION : 6,35 (kg/kg)



HYDRATION



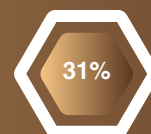
ENERGIZING



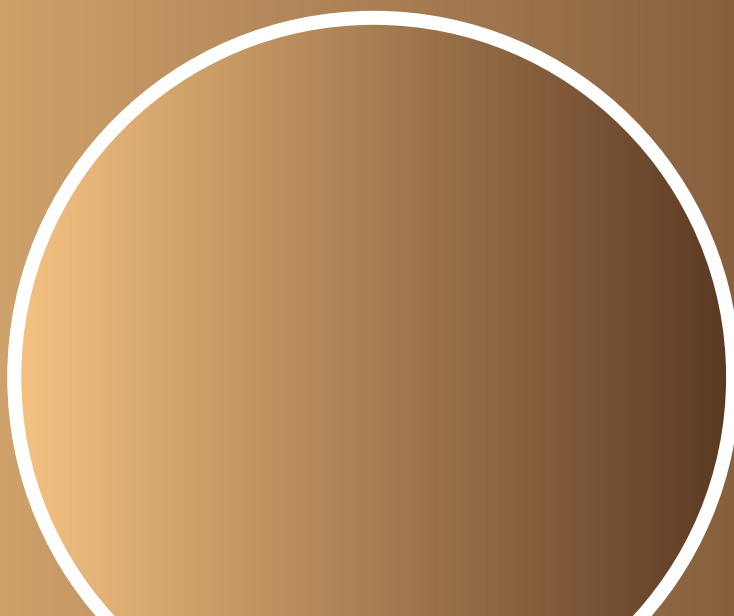
ANTIOXYDANT



ANTI -
INFLAMMATORY



PROTECTION



INCI NAME : PROPYLENE GLYCOL (AND)
WATER (AND) VITIS VINIFERA (GRAPEVINE)
EXTRACT

RECOMMENDED DOSE : UP TO 2%

ASPECT : DARK RED LIQUID

SOLUBILITY : SOLUBLE IN WATER

ISO : 16128 **NDI :** 1

ORIGIN : FRANCE

ENERGY CONSUMPTION : 19,10 (kWh/kg)

WATER CONSUMPTION : 15,21 (kg/kg)

100%

HYDRATION

46%

ANTIOXYDANT

38%

PROTECTION

36%

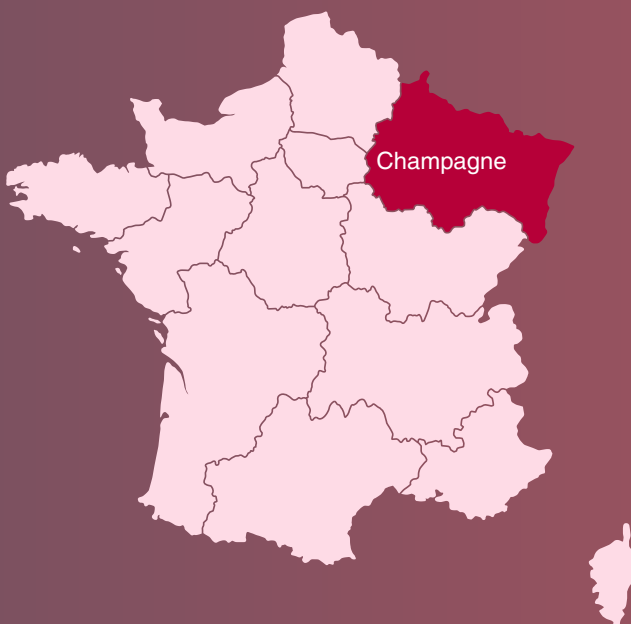
ANTI -
INFLAMMATORY

33%

ENERGIZING

CHAMPAGNE REBORN VINE

Each year, **between 3 and 5%** of French vineyards are removed (about **25,000 hectares**) mainly to adjust planting density, change grape varieties, or maintain vineyard age. In the **Champagne region**, we collect vine by-products from cooperatives. Though essential, vine removal is costly, time-consuming, and emits significant CO₂, as vines are typically burned.





INAWAVE®

LEONURUS

Healthy-looking by nature

RELIEVES SKIN
IRRITATION

HELPS AGAINST
ATOPIC
DERMATITIS

HIGH
PERFORMANCE
ECO-
EXTRACTION

SUSTAINABLE
TECHNOLOGY

GROUNDBREAKING ECO-EXTRACTION



**PATENTED TECHNOLOGY:
3 COMBINED ACTIONS**
HIGH EFFICIENCY ECO-EXTRACTS
LESS SOLVENT, TIME AND ENERGY SPENT



**ENERGY
SAVING**



**FASTER
PROCESS**



**BETTER
YIELD**



**5 TIMES
LESS CO₂**



THE POWER OF NATURE

The rutin-rich extract of *Leonurus Japonicus* is one of the 50 fundamental herbs of the Traditional Chinese Medicine. The plant is known as a powerful antioxidant and anti-inflammatory efficient on very dry skin with atopic tendency.

Place of Origin:

Shandong Province, east of China

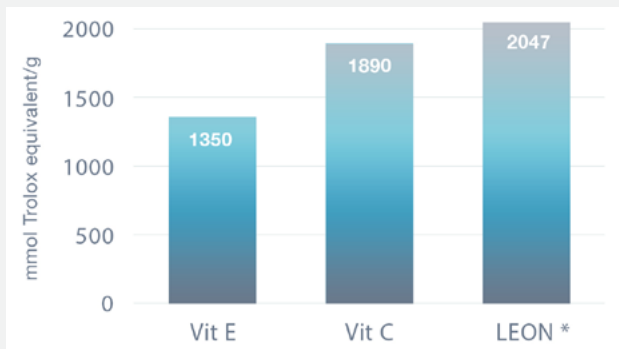
Part:

Aerial, herbal plants

**Traditional cultivation
by a farmers' cooperative**



ANTIOXIDANT POWER : ORAC TEST



ORAC: Oxygen radical absorbance capacity

*Leonurus Japonicus powder extract

Leonurus japonicus extract exhibited good antioxidant power, higher than vitamins E or C. Antioxidant properties will help to fight against free radicals and will help to keep the skin barrier in a healthy state, reducing oxidation and water loss.

¹ *Cosmetic Dermatology: Products and Procedures* Zoe Diana Draelos, 2011, Wiley Blackwell

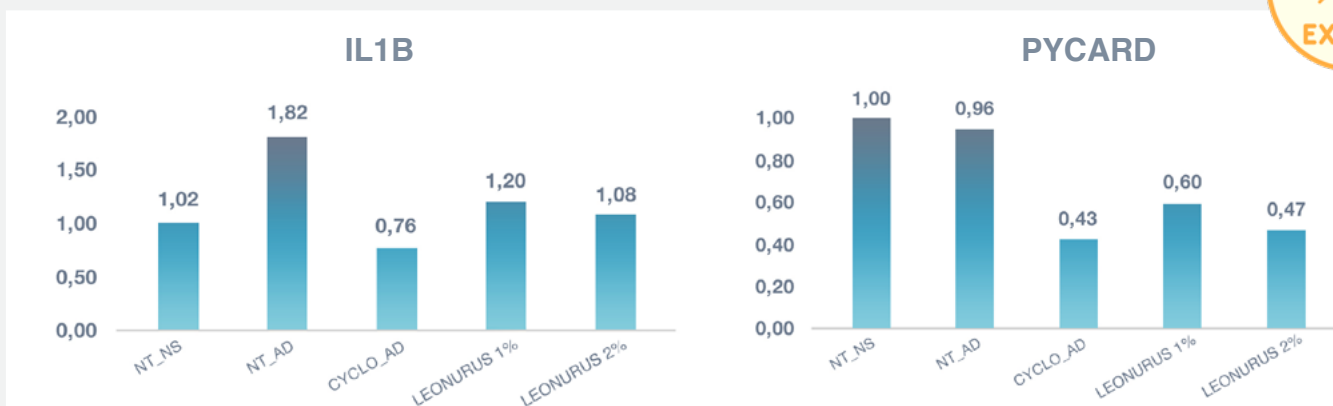


ANTIOXIDANT POWER COMPARED TO VITAMIN E

EX-VIVO STUDY: VERY DRY SKIN WITH ATOPIC TENDENCIES

Skin biopsies in atopic state induced by a cytokine cocktail

INFLAMMASOME GENES MODULATION



NT-NS: Non treated explants ; NT-AD: Explants treated with cytokines cocktail ; Cyclosporin was used as pharmacological control ; Skin explants were either treated for 24h with active ingredient or Cyclosporin or not. Skin explants were then stressed with AD cytokines cocktail with or without active ingredient.

Leonurus extract shows diminution of gene expression related to the inflammatory response.

TSLP EPIDERMIS LEVEL MODULATION

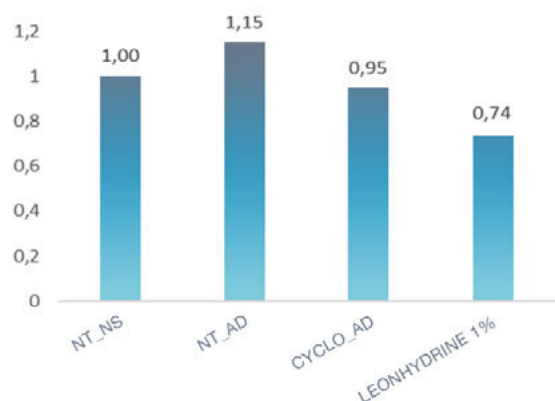
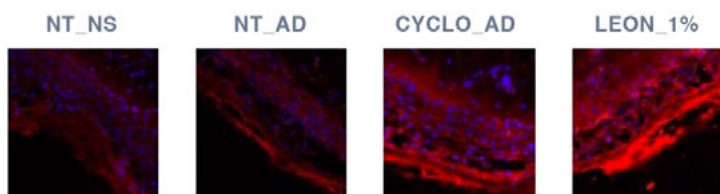
Mean intensity of fluorescence in Cy5 after IHC of TSLP : quantity of TSLP in skin explant normalized by non treated explants (NT_NS).



EXPRESSION OF INFLAMMASOME GENES



PRODUCTION OF TSLP AT PROTEIN LEVEL



NT-NS: Non treated explants ; NT-AD: Explants treated with cytokines cocktail ; CYCLO-AD: cyclosporin control ; fluorescence of purple nuclei was measured



Indispensable ally against inflammation



PRODUCTION OF
TSLP AT PROTEIN
LEVEL



EXPRESSION OF
INFLAMMASOME
GENES



ANTIOXIDANT
POWER COMPARED
TO VITAMIN E

INCI: Water & Butylene Glycol & Leonurus Japonicus Extract

pH range of use: 4-10

Use level: 1-3%

Solubility: Soluble in water

Aspect: light brown liquid

ISO 16128 NI: 0,70

NDI: 1

Shelf life: 2 years



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LIQUORICE LEAF



UPCYCLED
A New Outlook





PROVENCE FORGOTTEN LEAVES

Organic liquorice is grown on just 3.5 hectares in Provence, yielding around 1.5 tons of leaves annually. Often overlooked in favor of the roots, these leaves fall naturally before the November harvest. Though currently unused, they offer potential for upcycling, reducing waste and diversifying applications, while roots are harvested every four years without harming the plant.

INCI NAME: GLYCERIN (AND) WATER (AND) GLYCYRRHIZA GLABRA (LICORICE) LEAF EXTRACT

RECOMMENDED DOSE: 1-3%

ASPECT: YELLOW CLEAR LIQUID

SOLUBILITY: SOLUBLE IN WATER

ENERGY CONSUMPTION : 2,45 (kWh/kg)

WATER CONSUMPTION : 1,77 (kg/kg)

ISO 16128 **NDI:** 1

ORIGIN: FRANCE



PROTECTION



ENERGIZING



HYDRATION



ANTIOXIDANT



**ANTI -
INFLAMMATORY**





OLIVE LEAF



UPCYCLED

A New Outlook



INCI NAME : GLYCERIN (AND) WATER (AND) OLEA EUROPAEA (OLIVE) LEAF EXTRACT

RECOMMENDED DOSE : UP TO 1%

ASPECT : AMBER LIQUID

SOLUBILITY : SOLUBLE IN WATER

ENERGY CONSUMPTION : 3,87 (kWh/kg)

WATER CONSUMPTION : 2,50 (kg/kg)

ISO : 16128 **NDI :** 1

ORIGIN : FRANCE



ANTIOXYDANT



**ANTI -
INFLAMMATORY**



PROTECTION



HYDRATION



ENERGIZING



MEDITERRANEAN SILVER HERITAGE

Provence is the heart of French olive culture, home to over 12,000 hectares of organic groves. While pruning leaves are typically discarded, they are naturally packed with powerful antioxidants.

We upcycle this residue into a premium cosmetic ingredient, certified Organic, Fair for Life, and NOP. Our process supports local heritage while turning agricultural waste into high-performance sustainable beauty.





POLYPORUS

Holistic Hair Care



INCREASED
HAIR GROWTH
AND
DENSITY

REDUCED
HAIRLESS
AREAS AND
HAIR FALL

HIGH
PERFORMANCE
ECO-
EXTRACTION

SUSTAINABLE
TECHNOLOGY

GROUNDBREAKING ECO-EXTRACTION



PATENTED TECHNOLOGY:
3 COMBINED ACTIONS
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 LESS SOLVENT, TIME AND ENERGY SPENT



**ENERGY
SAVING**



**FASTER
PROCESS**



**BETTER
YIELD**



**5 TIMES
LESS CO₂**

THE POWER OF NATURE

Polyporus Umbellatus, a precious edible and **medicinal fungus**, has been traditionally used in Chinese and Japanese medicine primarily for treating urinary systems and related kidney diseases. Recent research has indicated that this fungus also **has potential benefits to stimulate hair regrowth**.



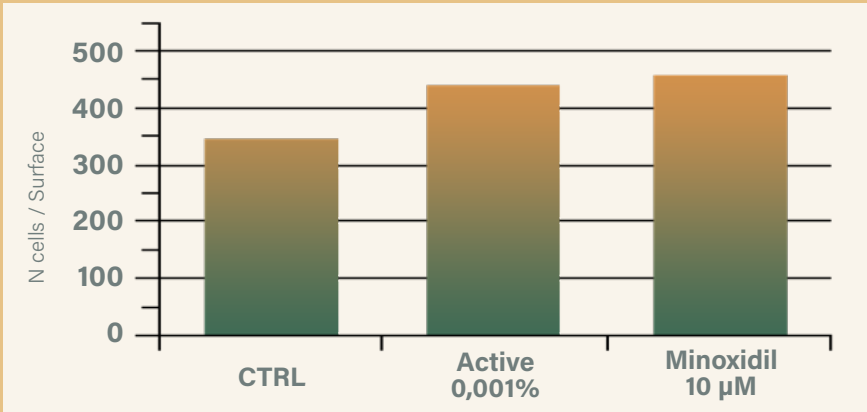
Place of Origin:
 Sichuan,
 Southwest of China

Part:
 Sclerotia (underground part)



**The mushrooms are grown on buried logs
 near appropriate hardwood trees**

EFFICACY TESTS



The Polyporus extract presented a significant increase of hair follicle cells similar to Minoxidil.

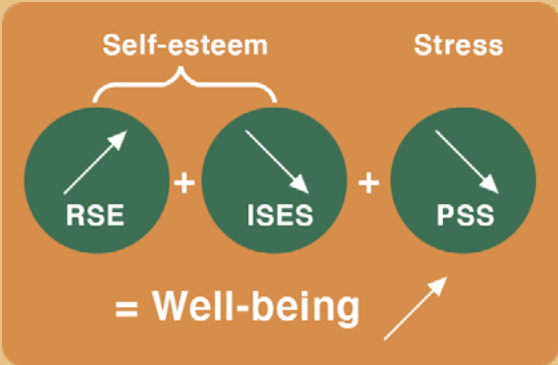


Two 56-day-long clinical studies on 20 volunteers each were performed (equivalent to 6% of Inawave Polyporus).

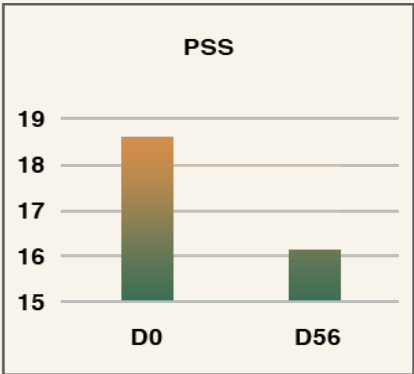
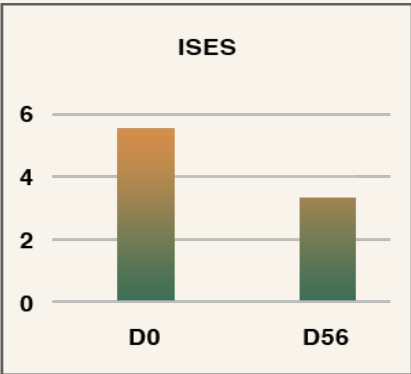
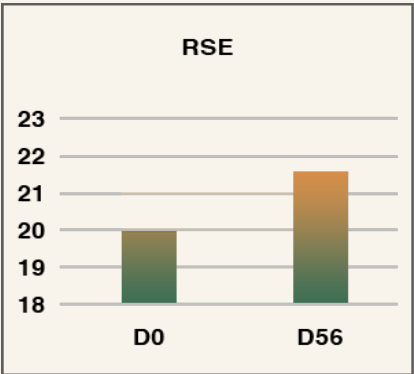


WELL-BEING IMPROVEMENT

In addition, volunteers completed a self-assessment questionnaire, as well as self-esteem (RSE and ISES) and perceived stress (PSS) surveys, while their reactions were recorded via electroencephalography (EEG).



After 56 days of treatment, participants observed a significant hair shine improvement and hair loss reduction (overall acceptance 82%). Self-esteem of users improved (less instability with time).





OVERALL
ACCEPTANCE
82%

INCREASED
HAIR
DENSITY
+6,3%

REDUCED
HAIRLESS
AREAS
-9,6%

REDUCTION
OF NEGATIVE
FEELING
EMOTION
-99%

REDUCED
HAIR FALL
-20%

No more “bad hair days”: A holistic solution for hair and well-being

Inawave Polyporus increases hair growth and density and prevents hair fall, improving at the same time the well-being in general.



INCI: Water & Glycerin
& Polyporus Umbellatus Extract
& Potassium Sorbate

pH range of use: 4-10

Use level: Up to 6%

Solubility: Soluble in water

Aspect: Light brown liquid

ISO 16128 NI: 0,70 **NDI:** 0,99



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STEMONA

Well-ageing naturally



RESTORES
THE COLLAGEN
NETWORK

IMPROVES
THE SKIN
FIRMNESS

HIGH
PERFORMANCE
ECO-
EXTRACTION

SUSTAINABLE
TECHNOLOGY

GROUNDBREAKING ECO-EXTRACTION



**PATENTED TECHNOLOGY:
3 COMBINED ACTIONS**
HIGH EFFICIENCY ECO-EXTRACTS
LESS SOLVENT, TIME AND ENERGY SPENT



ENERGY
SAVING



FASTER
PROCESS



BETTER
YIELD



5 TIMES
LESS CO₂



THE POWER OF NATURE

Stemona Tuberosa Roots are used in the traditional medicine for pulmonary diseases, as it **decreases the inflammatory responses** by inhibiting the expression of diverse inflammatory mediators. We discover an interesting antioxidant activity, which contributes to the reinforcement of the collagen fibers and increases the skin firmness.

Place of Origin:
Guangxi, South of China

Part:
Root

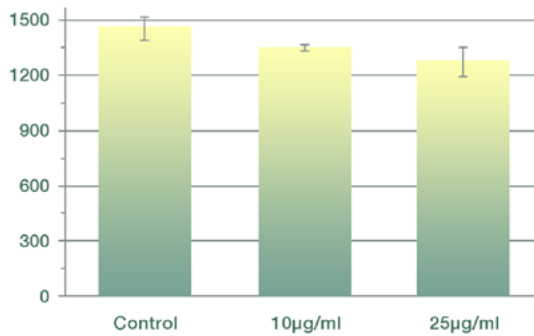
Traditional cultivation
by a farmers' cooperative



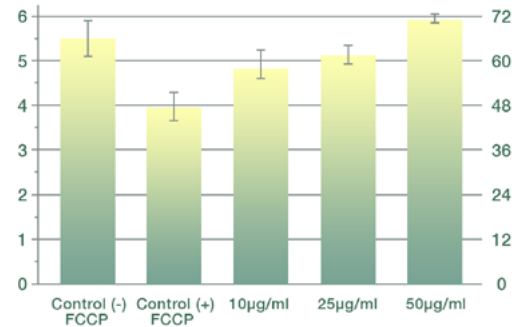
IN-VITRO STUDY:



TEST R.O.S. INDUCTION
(REACTIVE OXYGEN SPECIES)



TEST PRODUCTION OF HUMAN PROCOLLAGEN TYPE I



PROCOLLAGEN PRODUCTION



INTRACELLULAR ROS SPECIES PRODUCTION

EX-VIVO STUDY:



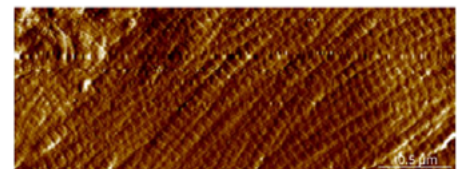
Two abdominal skin explants (young and mature) were used for this study with three conditions:

- Untreated young skin
- Untreated mature skin
- Mature skin treated with Stemona active (1%)

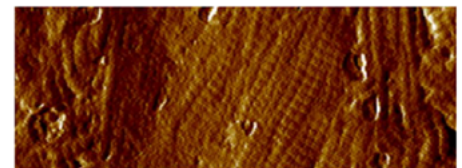
The analysis of the orientation and dispersion of collagen fibers revealed a more homogeneous orientation of fibers from mature skin, compared to fibers from younger skin. Stemona restores this orientation, making it similar to the one observed in the young condition.

AFM topographic images showing the visual quality/aspect of the collagen fibers between non-treated young skin, non-treated mature skin, and treated mature skin condition.

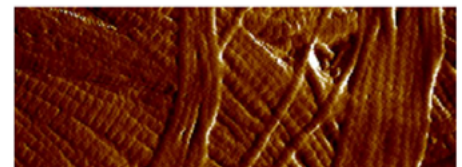
Young skin



Untreated mature skin



Treated mature skin



COLLAGEN FIBRES OCCUPANCY RATE

CLINICAL STUDY:

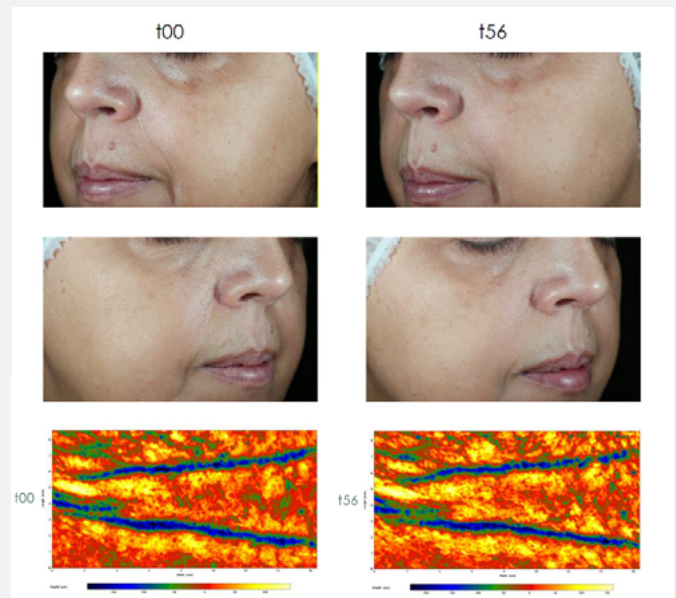


Double-blinded placebo-controlled clinical study, made with 22 women (35-70 years old) to evaluate the effect of Stemona at 1% in a facial emulsion, 56 days after a twice-daily application of the product, in comparison with the baseline and a placebo

Right and left hemi-face photographs before (left - t00) and after (right - t56) the treatment of the product with Stemona twice-daily application. Eye contour coloured depth picture before (t00) and after 56 (t56) consecutive days of twice daily application of the product containing Stemona.



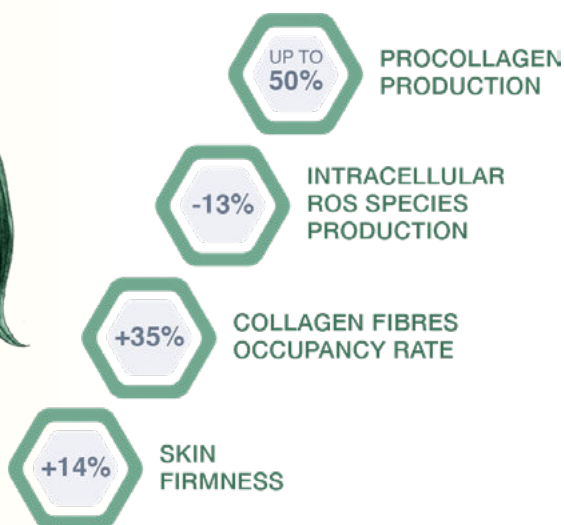
SKIN FIRMNESS





YOUR ALLY IN AGEING WITH CONFIDENCE AND ELEGANCE

Stemona Tuberosa Root Extract is able to reduce the levels of reactive oxygen species and to restore collagen synthesis and cell proliferation depressed by an induced mitochondrial stress in fibroblasts.



INCI: Water & Propanediol & Stemona Tuberosa Root Extract

pH range of use: 4-10

Use level: 1-3%

Solubility: Soluble in water

Aspect: Light brown liquid

ISO 16128 NI: 0,70 **NDI:** 0,99



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ZHEJIANG PURE LEAF



White tea leaves come from China's Zhejiang region, where tea is grown in mountain areas, far from urban pollution. End-of-harvest leaves, less prized for their taste, are often left unharvested due to low demand. Yet, they offer high-quality compounds for cosmetics, allowing us to valorize an underused resource and helping Zhejiang farmers make the most of their entire crop.

ENERGY CONSUMPTION : 1,12 (kWh/kg)

WATER CONSUMPTION : 0,68 (kg/kg)



HYDRATION



ENERGIZING



ANTIOXYDANT



ANTI -
INFLAMMATORY



PROTECTION