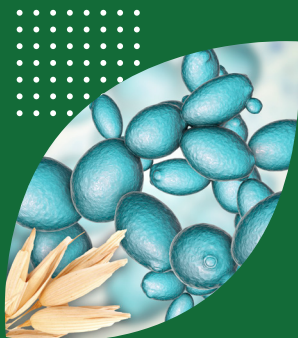


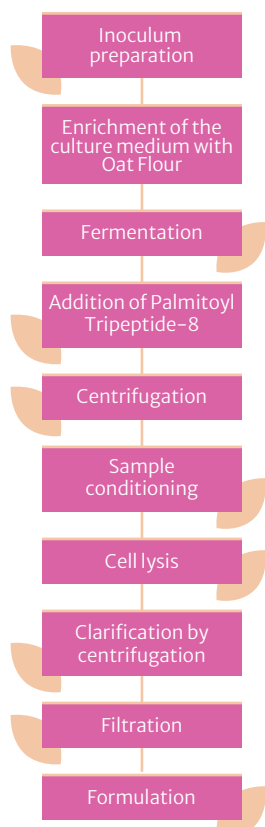


A company inspired by nature
and supported by science

EN



FLOWCHART FOR INNOVATIVE SENSIFERM® PREPARATION



(GFT)[®]

**The Green
Ferment Tech[®]**

Transformation of simple raw materials in a Ferment–Peptide Complex by a process that combines Natural ferment with a natural origin peptide



INNOVACTIVE SENSIFERM[®]

Ferment–Peptide Complex with a specific soothing / calming and anti-redness action for sensitive skin

TECHNOLOGY	EFFICACY STUDIES	DOSAGE	REGULATION
BIO FERMENTATION	• In vitro soothing / anti-inflammatory efficacy test • antioxidant enhancement in vivo test • Soothing/calming, anti-redness efficacy in vivo test	• Hydration • Elasticity • TEWL • Clinical evaluation	2%
			EU AU CN KR US CA JP

INNOVACTIVE FERMENTATION STRATEGY

Saccharomyces Cerevisiae strain from fermented rice specifically selected based on its natural content of Ergosterol and the three main fatty acids Omega 3, Omega 6, Omega 9.

The fermentation is carried out in the laboratory, under controlled technological conditions in a specific medium with natural nutrients enriched with OAT FLOUR which is in turn rich in fatty acids to create a synergy with those already present in the Saccharomyces Cerevisiae.

The **INNOVACTIVE FERMENTATION STRATEGY** to obtain a Ferment–Peptide Complex is based on the addition of a peptide during natural fermentation with plant–derived nutrients enriched with Oat flour to obtain synergies of active ingredients and cosmetics activities.

INNOVACTIVE SENSIFERM[®]

Ferment–Peptide Complex derived from natural fermentation of Saccharomyces Cerevisiae **rich in Ergosterol** (precursor of Vitamin D) **and particularly in Fatty Acids Omega – 3 – 6 – 9, thanks to the presence of Oat flour** in the culture medium, and it grows in a specific medium that includes the **natural origin peptide Palmitoyl tripeptide-8**.

Innovative SENSIFERM[®] has a soothing/calming, anti-redness effect, reducing skin sensitivity to external stimuli and also unpleasant sensations typical of hypersensitive skin.

Characteristics associated with skin hypersensitivity:

- Weak hydrolipidic film
- Exaggerated reactivity to external stimuli (temperature changes, wind, sun, pollution, laser treatment) and internal stimuli (drug therapies, hormonal changes, moments of strong stress)
- Dry skin with flaking and a rough surface
- Sensation of tight skin, redness and itching



www.innovingredients.com
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INNOVATIVE SENSIFERM®

KEY ACTIVE INGREDIENTS AND THEIR FUNCTIONS

Ergosterol**Fatty Acids (10.000 – 15.000 ppm)****Biomimetic peptide**

Ergosterol and Fatty Acids are titrated in each batch and make the Ferment –Peptide Complex together with the biomimetic peptide, particularly effective in reducing skin sensitivity with a soothing/ calming and anti-redness efficacy as well as reducing itching and unpleasant sensations typical of hypersensitive skin.

In the SENSIFERM® we have:**Saccharomyces ferment lysate filtrate**

Contains natural Ergosterol (precursor of Vitamin D), and Fatty Acids enriched by those present in the **OAT FLOUR** with which the culture medium is enriched.

As we know, **FATTY ACIDS** are the main components of the skin's hydrolipidic film which is altered in sensitive skin promoting dehydration, dry and sensitive skin that reddens easily.

Palmitoyl tripeptide-8

Biomimetic peptide with specific anti-reddening, soothing/ calming efficacy, which reduces the skin's sensitivity to external stimuli and unpleasant sensations, helping to restore the balanced level of sensitivity.

INNOVATIVE SENSIFERM® EFFICACY

Premise: the deficiency of Fatty Acids observed in sensitive skin is manifested by increased TEWL (trans epidermal water loss), a compromised hydrolipidic film, altered skin barrier function and appearance of skin reactions.

Efficacy:

- 1 helps to rebuild the weak hydrolipidic film to improve the functionality of the compromised skin barrier of sensitive, irritated, very dry skin
- 2 helps to calm, soothe, reduce redness, itching and irritation
- 3 protects the skin from environmental damage
- 4 improves skin hydration and elasticity also smoothing the surface of the skin
- 5 protects the skin from UV irradiation – induced damage and signs of aging

TECHNICAL PRODUCT DATA

Producte Code: INNO-008 | **INCI:** Glycerin, Saccharomyces ferment lysate filtrate, Palmitoyl tripeptide-8 | **Solubility:** water dispersible | **pH:** 5-8 | **Colour:** whitish-yellowish
Preservative Free | **Recommended dose:** 2% | Shake before use

IN VITRO TEST SOOTHING / ANTI-INFLAMMATORY EFFECT

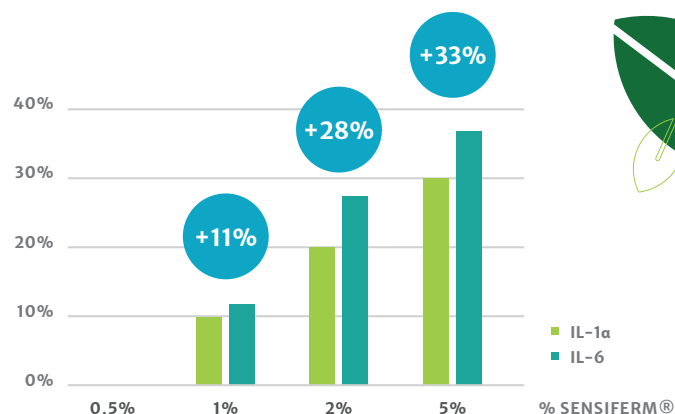
ANTI-INFLAMMATORY TEST

Technique: ELISA

Sensiferm is able to reduce the release of pro-inflammatory interleukins IL-1α and IL-6 after inflammatory stimulation with LPS (Lipopolysaccharide).

Dose – dependent soothing effect by significantly reducing the levels of IL-1α and IL-6.

SOOTHING ACTIVITY INDEX (Average % IL)



IN VIVO EFFICACY TEST CARRIED OUT USING A CREAM CONTAINING 2% OF SENSIFERM

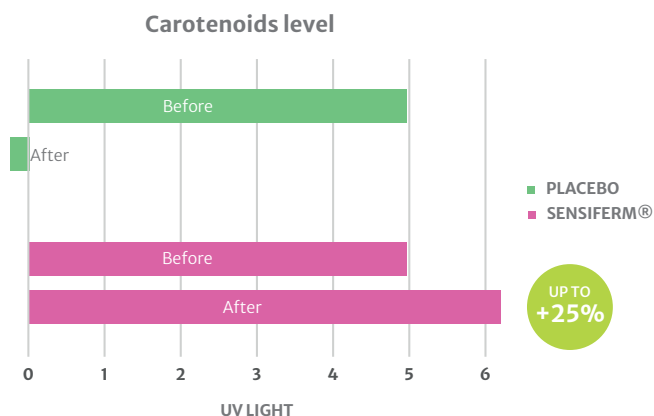
IMMEDIATE EFFICACY: after just one application of the product

ANTIOXIDANT ENHANCEMENT EFFICACY

Technique: BIOZOOM (Skin Autofluorescence)

Dose: 2% Sensiferm vs Placebo

1 Application 15 min exposition to Oxidative source (UV light)



BARRIER EFFECT

Technique: Dermatoscope SIF PRO

SENSIFERM® has a Barrier effect protecting skin from fine dust (Polluting particles) that induce Radical Radiation triggering processes of increase in Free Radicals.

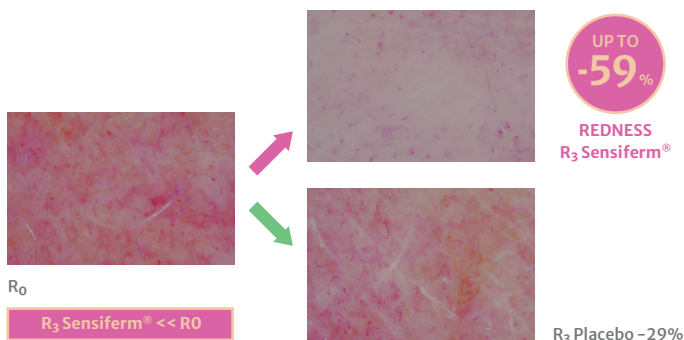


% Barrier Effect = Carbon derived particles applied
– Carbon derived particles removed

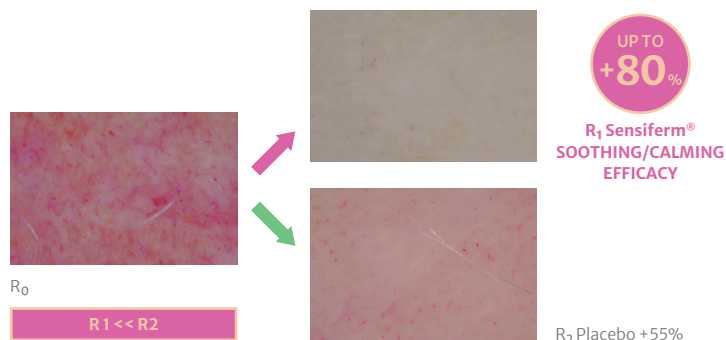
SOOTHING/CALMING / ANTI-REDNESS EFFECT: PREVENTIVE ACTION AND TREATMENT

Technique: Dermatoscope SIF PRO / LASER Dynamis SP

PREVENTIVE EFFICACY: Skin previously treated with Sensiferm® is less sensitive and reddens less after laser treatment than untreated skin (R₀).



TREATMENT EFFICACY: Sensiferm® reduces skin redness on skin sensitized by external stimuli such as laser treatment.

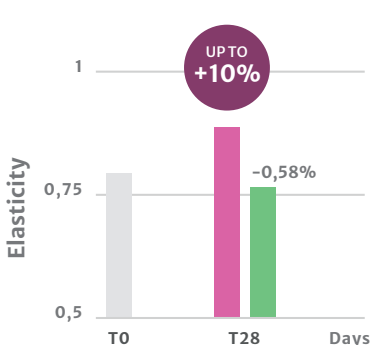


R₀ = basal redness of the skin after laser treatment | R₁ = redness after laser treatment and subsequent application of Sensiferm®
R₂ = redness after laser treatment and subsequent application of Placebo | R₃ = redness after applying Sensiferm® or Placebo and subsequent laser treatment

IN VIVO EFFICACY TEST WITH DAILY APPLICATION OF A CREAM CONTAINING 2% OF SENSIFERM® vs PLACEBO FOR 28 DAYS

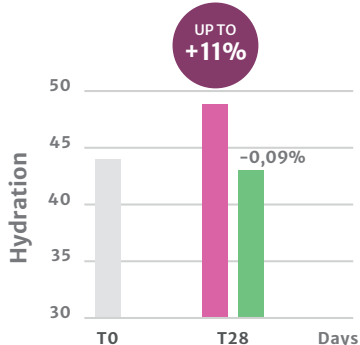
ELASTICITY

Measured with Cutometer Dual MPA 58



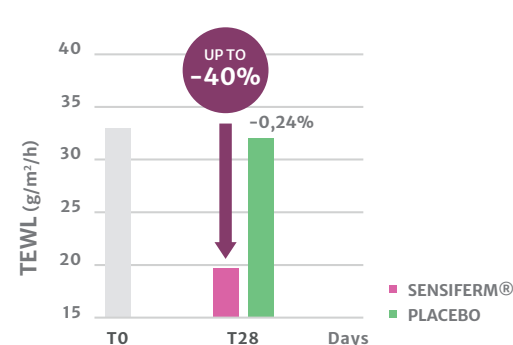
HYDRATION

Measured with a Scalar Model MY-808S Corneometer



TEWL (protective activity)

Measured with BIOX AQUAFLUX SYSTEM



CLINICAL EVALUATIONS: ROUGHNESS

The Allergan Visual Roughness Scale was used to evaluate skin texture after treatment.

In 100% of the volunteers skin roughness was significantly reduced (half a grade improvement of the Allergan Scale) with a significant increase in smoothness.

100%

EFFECTIVE SMOOTHING SKIN SURFACE

100%

REDUCTION SKIN SURFACE ROUGHNESS

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