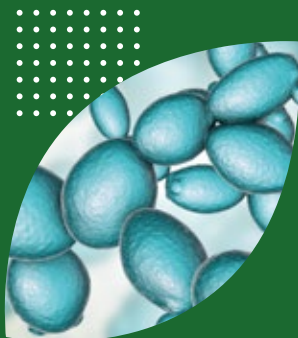


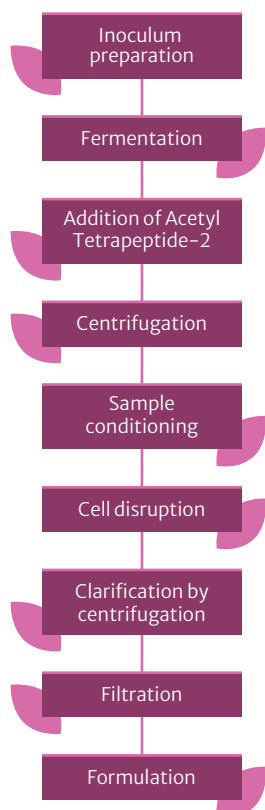


A company inspired by nature
and supported by science

EN



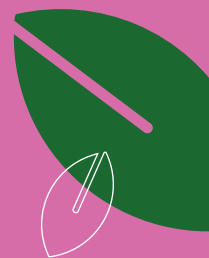
FLOWCHART FOR INNOVATIVE WOMANFERM® PREPARATION



(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



INNOVATIVE WOMANFERM[®]

Ferment-Peptide Complex to fight the signs associated with
hormonal variations starting from Premenopause period.

TECHNOLOGY	EFFICACY STUDIES	DOSAGE	REGULATORY
BIO FERMENTATION	• Deep hydration • Epidermal/Dermal density • Echogenic density	• TEWL • Protein Glycation • Skin tightening • Skin volumizing	3%
			EU AU CN KR US CA JP

INNOVATIVE 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 and Omega 9 .

The selection is carried out using cultivation techniques and biochemical analyzes to verify the content of these components.

The fermentation is carried out in the laboratory under controlled technological conditions in a specific medium, with natural nutrients (like glucose and soy peptones), and natural origin peptide, having cosmetic properties.

The **INNOVATIVE FERMENTATION STRATEGY** to obtain a Ferment-Peptide Complex is based on the addition of a peptide during natural fermentation of Saccharomyces Cerevisiae grown with plant-derived nutrients to obtain synergies of active ingredients and cosmetic activities.

INNOVATIVE WOMANFERM[®]

Ferment-peptide Complex derived from natural fermentation in which Saccharomyces Cerevisiae with natural content of Ergosterol (precursor of Vitamin D) enriched by the fermentation process, and fatty acids omega 3, omega 6 and omega 9 which are the essential constituents of hydrolipidic film of the skin, grow in a specific medium , including the biomimetic peptide Acetyl tetrapeptide-2, to counteract facial skin changes associated with hormonal variations occurring from premenopause period such as:

- Flaccidity
- Loss of density, elasticity and tone
- Dryness
- Increased protein glycation
- Reduction of skin immune defenses

and keep the skin looking more youthful.



www.innovatingredients.com
info@innovatingredients.com

INNOVATIVE WOMANFERM®

KEY ACTIVE INGREDIENTS AND THEIR FUNCTIONS

At the end of fermentation, the bacteria are lysed and filtered after centrifugation, to obtain a concentrate rich in active ingredients such as:

Ergosterol

Fatty acids

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 counteract the effects of sagging skin, helping to fight the signs associated with hormonal variations and keep the skin looking youthful.

In the WOMANFERM® particularly:

Saccharomyces ferment lysate filtrate

with natural Ergosterol content (precursor of Vitamin D) enriched by the fermentation process and fatty acids omega 3, omega 6 and omega 9 which are the essential constituents of the hydrolipidic film of the skin, it helps to increase dermal and epidermal density, makes the hydrolipidic film more compact and the skin barrier more resistant, bringing the skin back to an optimal physiological state and appearance.

Acetyl Tetrapeptide-2

Biomimetic peptide which helps the skin fight the signs associated with hormonal variation, starting from premenopause period, counteracting the effects of skin sagging and loss of tone due to aging and the force of gravity, stimulating skin's immune defenses and increasing elasticity, firming and skin tightening efficacy.

INNOVATIVE WOMANFERM® EFFICACY

With age, hormonal variations occur in a woman's life which lead to stress, exhaustion and energy deficiency, but also loss of skin tone, dryness, thinning of the epidermis, poor production of Collagen/Elastin/HA, loss of brightness, appearance of age spots and increased loss of trans epidermal water due to lack of fatty acids in the hydrolipidic film.

All these skin changes are due to hormonal variations that occur starting from premenopause period and that we try to compensate bringing the skin back to an optimal physiological state and appearance in multiple ways:

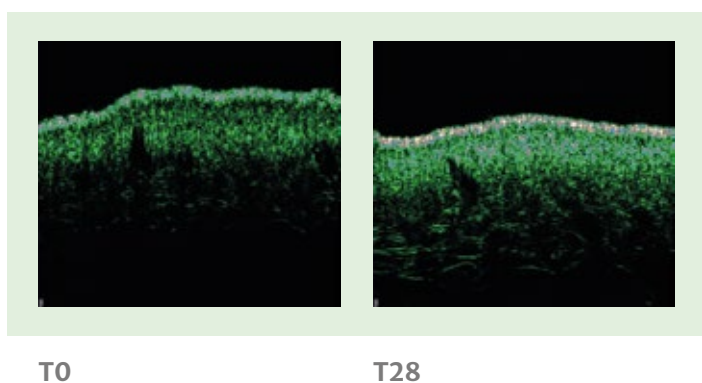
- 1 counteracting sagging skin
- 2 Increasing the tone, firming, elasticity and tightening the skin
- 3 increasing dermal and epidermal density
- 4 improving protection thanks to greater resistance and compactness of the skin barrier
- 5 reducing skin dryness by increasing deep hydration
- 6 reducing protein glycation

TECHNICAL PRODUCT DATA

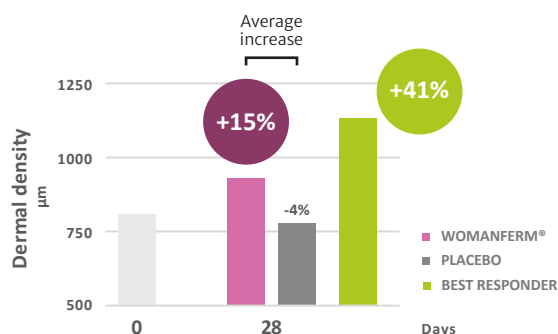
Producte Code: INNO-007 | **INCI:** Glycerin, Saccharomyces ferment lysate filtrate, Acetyl tetrapeptide-2 | **Solubility:** water soluble | **pH:** 6-8 | **Colour:** colorless-yellowish | **Preservative Free** | **Recommended dose:** 3%

In vivo efficacy test carried out using a Cream containing 3% of Womanferm® twice a day for 28 consecutive days vs Placebo

Measurement of **EPIDERMAL** and **DERMAL DENSITY** using **HIGH RESOLUTION 15–20 MHz Ultrasound (DUB SKIN SCANNER)** and an average skin penetration of 16 mm

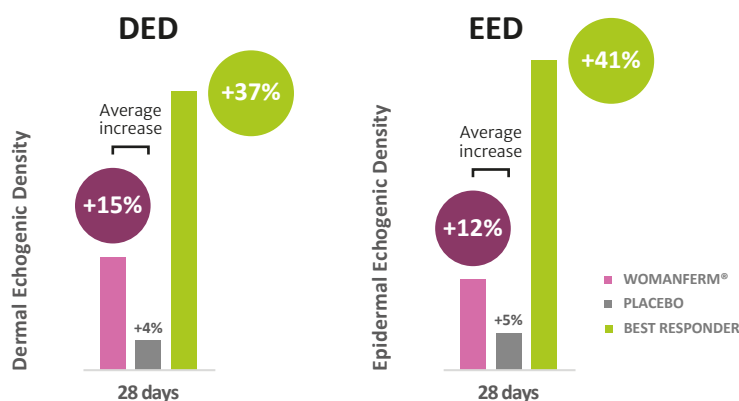


DERMAL DENSITY



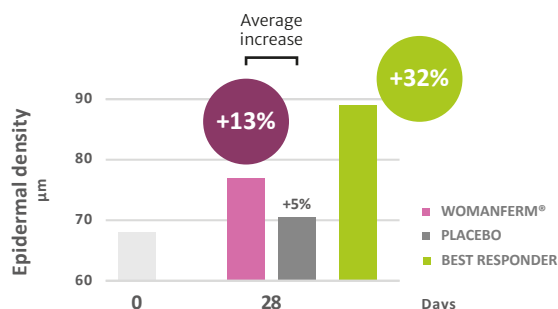
ECHOGENIC DENSITY (quantity of acoustic wave/area)

Measured by High Resolution 50 MHz Ultrasound (DUB SKIN SCANNER)



An increase in Echogenic density indicates an increase in the extracellular matrix, this means, a more organized skin structure and therefore a more compact dermal-epidermal junction.

EPIDERMAL DENSITY



VOLUME and TIGHTENING effect

3D Photos taken with camera using VECTRA H2 lens



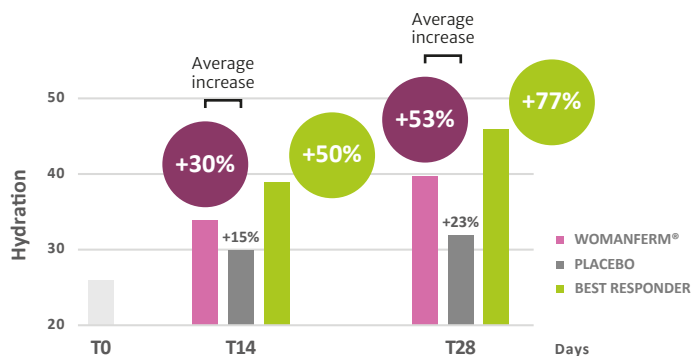
PLACEBO T28



WOMANFERM® T28

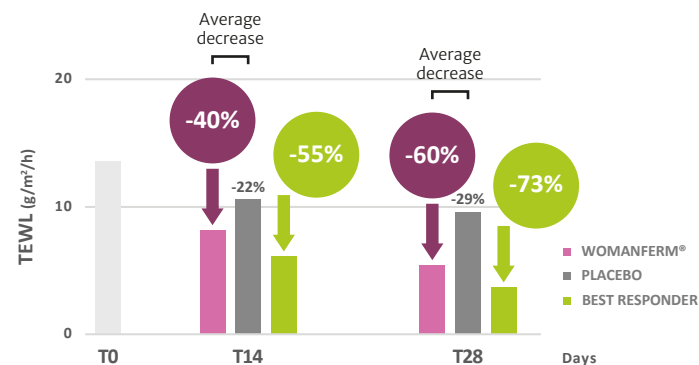
HYDRATION

Measured with a Scalar Model MY-808S Corneometer



TEWL (Protective Activity)

Measured with BIOX AQUAFLUX SYSTEM

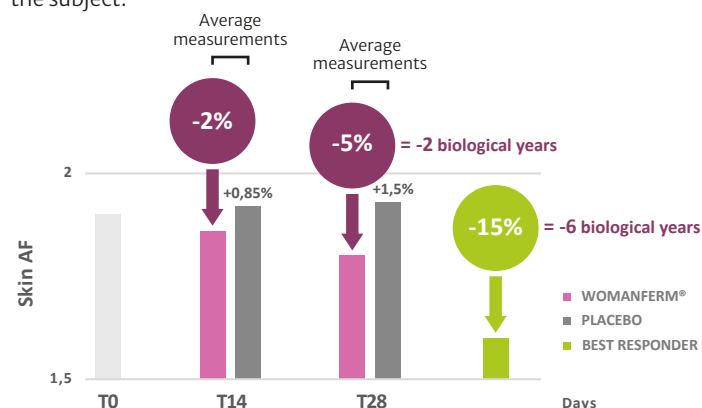


ANTI-GLYCATION EFFICACY

Measured with AGE Reader device that measures tissue accumulation of Advanced Glycation End-products (AGEs) by means of Fluorescence techniques.

**GLYCATION REDUCTION
=
INCREASE IN SKIN ELASTICITY**

The graph connects the skin AF of the Glycation and the AGE of the subject.



A rejuvenation of the biological age of the skin can also be seen by observing the change in the shape of the skin pores which have gone from oval to being rounder. There is a direct correlation between the shape of the pore, the age and the elasticity of the skin.



T=0



T=28

TECHNICAL PRODUCT DATA

Product Code: INNO-007 | **INCI:** Glycerin, Saccharomyces ferment lysate filtrate, Acetyl tetrapeptide-2 | **Solubility:** water soluble | **pH:** 6-8 | **Colour:** colorless-yellowish | **Preservative Free** | **Recommended dose:** 3%