



A company inspired by nature and supported by science

EN



(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 LIPOFORM

a lipo-reducing and remodeling ferment with body and face shaping activity

TECHNOLOGY

BIO FERMENTATION

EFFICACY STUDIES

In vitro evaluation of the lipo-reducing activity
Face remodeling in vivo test
Body remodeling in vivo test

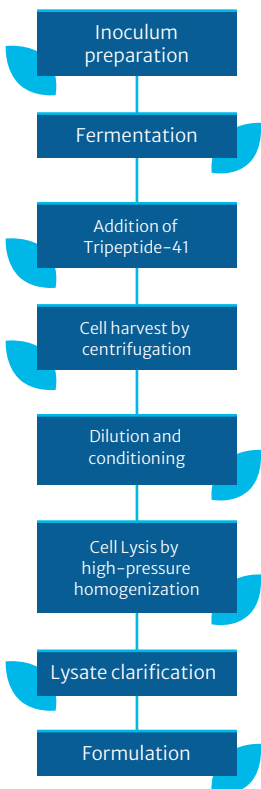
DOSAGE

3%

REGULATORY

EU AU US CA

FLOWCHART FOR INNOVACTIVE LIPOFORM PREPARATION



INNOVACTIVE FERMENTATION STRATEGY

Bacillus Subtilis originally obtained from Natto (the oldest Japanese food) during soybeans lactic fermentation, is fermented in the laboratory under controlled technological conditions in a specific medium with natural substrates and natural origin peptides having cosmetic properties.

During fermentation process, Bacillus Subtilis sp. Natto produces several bio actives peptides and enzymes playing key roles in skin cells.

The **INNOVACTIVE FERMENTATION STRATEGY** to obtain a Ferment–Peptide Complex is based on the addition of peptide during natural fermentation of Bacillus Subtilis grown with plant-derived nutrients.

INNOVACTIVE LIPOFORM

Ferment–Peptide Complex derived from natural fermentation in which Bacillus Subtilis grows in a specific medium including Tripeptide-41 to synergize with peptides produced by the bacteria, acting on lipolytic processes.

KEY ACTIVE INGREDIENTS AND THEIR FUNCTIONS

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

Vitamins Group B/K2/C
Biologically active peptides
Antioxidants

Peptides and Proteins
Catalase enzyme
Lipase enzyme

Peptides and enzymes are titrated as total proteins and specific enzymatic activities which together with the B Group Vitamins make the Ferment–Peptide Complex particularly effective in several activities.



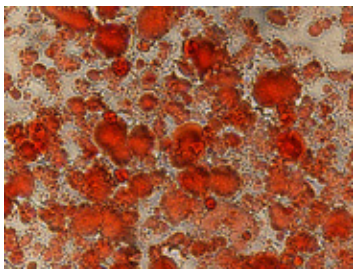
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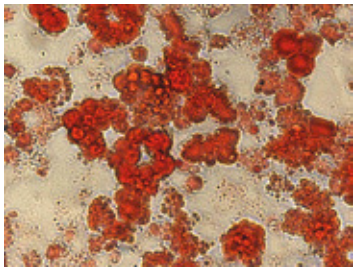
INNOVATIVE LIPOFERM

IN VITRO LIPO-REDUCING ACTIVITY ON ADIPOCYTES

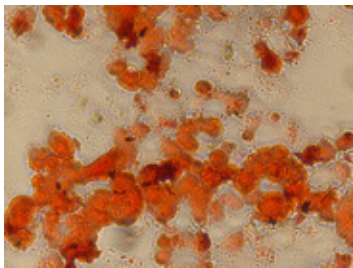
Reduction triglycerides
accumulated in adipocytes



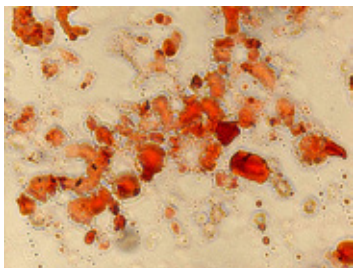
NC (not treated cells)



Adipocytes treated with
Lipoferm at 1%



Adipocytes treated with
Lipoferm at 3%



Adipocytes treated with PC
(Positive Control = Caffeine 0.5 mg/ml)

In the LIPOFERM particularly:

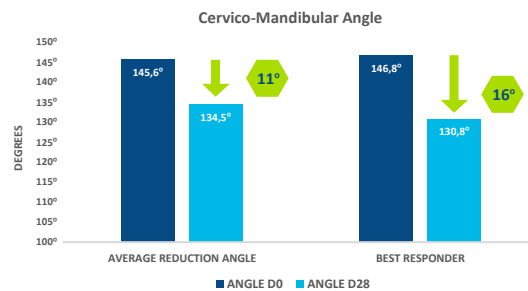
The **LIPASE enzyme** contained in the Bacillus Subtilis Ferment shows lipo-reducing and remodeling effects by inhibiting pre-adipocyte differentiation.

Tripeptide-41 stimulates lipolysis and contribute to the regulation of lipid mobilization. It promotes Brown adipocyte respiration, thermogenesis and the “browning” of white adipose deposits.

INNOVATIVE LIPOFERM EFFICACY

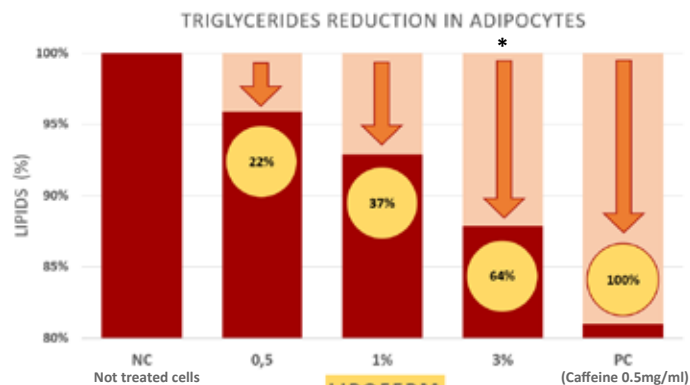
- 1 Lipo-reducing activity (slimming – anticellulite)
- 2 Inhibition of pre-adipocyte differentiation
- 3 Remodeling and redistribution activity of the body and face shaping
- 4 Moisturizing activity
- 5 Antioxidant protection from pollution, blue light and UV

IN VIVO STUDIES



Product: Gel With 3% Lipoferm Application: twice a day during 28 days
Date at D0 & D28

Face reshape activity



* p < 0.05 vs NC

NEW EFFICACY IN VIVO TEST BODY REMODELING

Adipose tissue is a connective tissue made up of adipocytes of two types: white and brown and has the intrinsic ability to transform white adipocytes into brown adipocytes and vice versa. The coexistence of these cells is antithetical: the white ones accumulate lipids in the form of triglycerides (which have an energy reserve function, storing calories), while the brown ones burn them (that is, they burn calories by generating heat: thermogenesis) and this happens when there is a drop in body temperature.

In fact, the brown adipose tissue activates in response to a drop in temperature, as in our case, and by activating it consumes and therefore burns the white fat with a consequent increase in temperature.

Of course, during the efficacy test we observe and measure the various parameters at a given moment and we do not observe a prolonged and lasting trend over time, because as we can see in the results obtained, we can appreciate a lowering or raising of the temperature of the same area of the body after 28 days of twice a day application of our product containing 3% of Lipoferm, due precisely to the cold-hot variations which correspond to the activation of brown fat which burns white fat with a consequent increase in temperature.

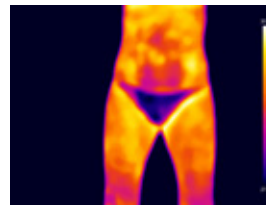
In vivo efficacy test carried out using a cream containing 3% Lipoferm twice a day for 28 consecutive days

PHOTOS MADE WITH INFRARED THERMOGRAPHY

Infrared thermography consists in measuring precisely the changes in the surface temperature of the skin using infrared thermal images: the range of colors reveals an increase or decrease in the infrared radiation emitted by the skin surface.

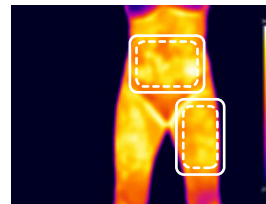
Volunteer 1

T=0



The photo at T= 28 days shows how the same area has become more yellow compared to T=0 this means that has been an increase in temperature

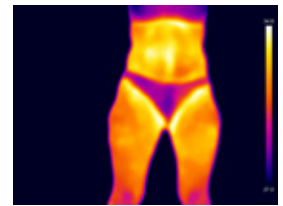
T=28 days



HIGHER TEMPERATURE: brown fat is burning white fat resulting in an increase in temperature

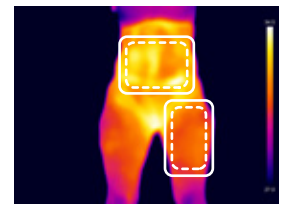
Volunteer 2

T=0



In the photo below we observe how the same area after 28 days has become more purple or blue this means that there has been a drop in temperature

T=28 days



LOWER TEMPERATURE: brown fat activated

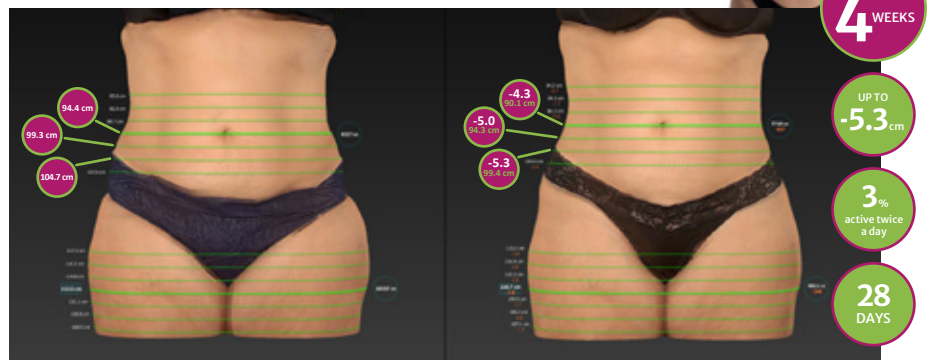


BODY CONTOUR REMODELING

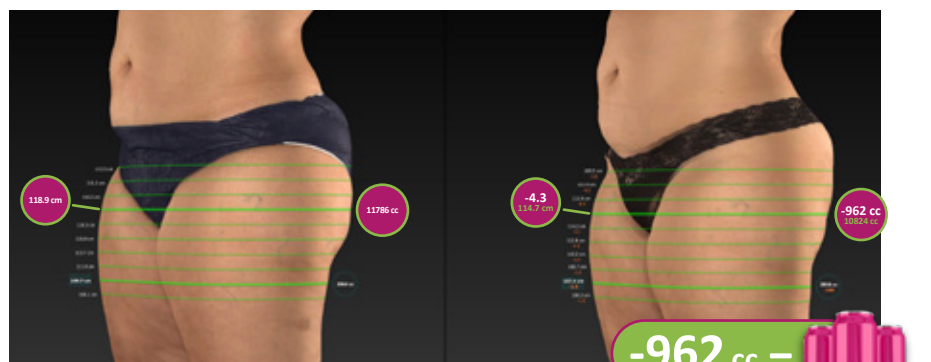


NORMOMETRIC MEASUREMENTS

Waist circumference reduction (cm)



Buttock volume and circumference reduction





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and supported by science

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



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