

# ASSESSMENT OF THE MESOSCIENCE BY SKEYNDOR - MESOFIRM

## **MESOFIRM**

### **ACTIVE :**

Organic silicon and collagenic amino acids : (1375 ppm of Organic silicon and collagenic amino acids contained in the BODY REMODELLING CONCENTRATE with remodelling agents).  
This active Reinforces the cohesion of the dermal matrix and improves its firmness

### **MAIN PURPOSE :**

*“Reaffirming and anti-glycation effect”*

### **RESULTS :**

1.-In vivo: 330 ppm of Organic silicon and collagenic amino acids: against stretch-marks that generally appears after pregnancy or after a slimming diet.

-Applied on the abdomen of 23 pregnant women from the beginning of the 3rd month until one month after delivery

#### **-Results:**

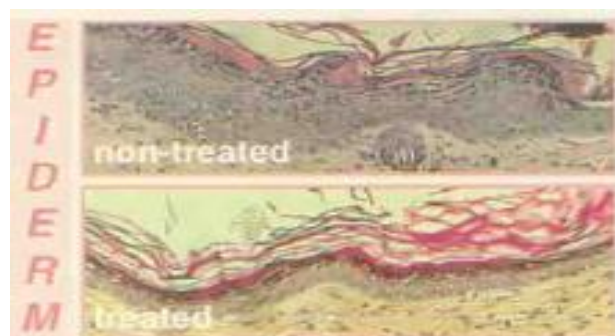
- **Primipare patients (never pregnant before):** 79% considered effect very good  
7% considered as good  
14% considered that it has no effect
- **Multipare patients (had baby(ies) before):** 50% considered effect very good  
13% considered as good  
37% considered that it has no effect

Probably the multipare patients had previous pregnancies that caused the formations of stretch-marks.

2.-In vitro: 220 ppm of Organic silicon and collagenic amino acids:Skin regeneration test

-Studied on an artificially aged skin (after scarification),on which Organic silicon and collagenic amino acids has been applied vs non-treated skin\_ after a 7-day healing period, for 2 weeks on a daily basis

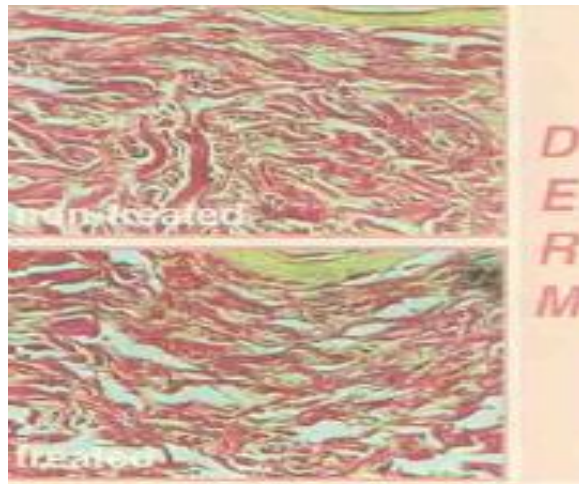
## **EPIDERMIS**



Non treated: Hyperplasia (important thickness of the epidermis)

Treated (220ppm): shows a “back to normal” epidermis

## DERMIS



Non treated: the regeneration has occurred in a “anarchic” way where the collagen fibers are disorganized.  
Treated (220ppm): collagen fibers appears much better organized, which results in a better skin appearance and elasticity.

## THE TWO FOLLOWING ARE THE SAME ASSETS THAT IN THE MESOFILLER BUT they CHANGE THE CONCENTRATIONS

### ACTIVE :

*Liposomed polyphenoles (2500 ppm of polyphenols contained in the BODY REMODELLING CONCENTRATE with remodelling agents).*

Reactivates the functions of the cells weakened by age, dermostimulating effect.

### MAIN PURPOSE :

*“Rejuvenates the skin”*

### RESULTS :

- *In vivo (900 ppm of polyphenols):*
- 1-2-3 month study: profilometry, self-evaluation, dermatological evaluation, A panel of 20 subjects, application twice daily.

**Results: increase of skin thickness of more than 7% after 2 months, and 11.2% after 3 months. Application of the polyphenols was also able to improve significantly ( $p < 0.05$ , compared with placebo other skin parameters like elasticity, roughness and wrinkle depth, exerting a positive activity on the entire aspect of aged skin.**

# ASSESSMENT OF THE MESOSCIENCE BY SKEYNDOR - MESOFIRM

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## ACTIVE :

*Microalgae* (2000 ppm of micro-collagen contained in the BODY REMODELLING CONCENTRATE with remodelling agents).

*It has Anti-elastase/collagenase effect and promotes collagen synthesis*

## MAIN PURPOSE :

*"Increases skin's elasticity"*

*In vitro* test (200 ppm of microalgae):

- increases Collagen I (COL1) expression by **+333%** and Collagen III (COL3) expression by **+150%** in fibroblasts.
- increases Elastin expression in fibroblasts by **+35%** and Elafin expression in keratinocytes by **+183%**.
- increases TIMP-1 (**+50%**), TIMP-2 (**+25%**) and TIMP-3 (**+31%**) in dermal cells.
- In fibroblasts, increases Collagen IV (COL4) expression by **+77%** and Laminin 6 (LAM6) expression by **+41%**.
- In keratinocytes, increases Laminin 5 (LAM5) expression by **+37%** and Collagen VII (COL7) expression by **+65%**.
- *In vivo* test (200 ppm of microalgae):
- **84 days study: ballistometry, self-evaluation, dermatological evaluation.**

A panel of 11 subjects, application twice daily.

## Results:

- **cutaneous penetration: -7.4% on average and up to -26% after 84 days of use. => the skin is firmer,**
  - **absorption of bounces by skin: +6.5% on average and up to +66% after 84 days of use. => the skin tone increased,**
  - **amplitude of bounce: -10.5% on average and up to -46% after 84 days of use => the firmness and tone of the skin increased**
- 84 days study: chromametry, self-evaluation, dermatological evaluation.**

A panel of 11 subjects, application twice daily.

## Results:

**significantly decreases the colour of stretch marks (chromametry analysis): -10.4% on average and up to -32% after 84 days of use.**  
**decreases the morphology of stretch marks (analysis from photographs): -2,9% on average and up to -7,9% after 84 days of use.**