

# ASSESSMENT OF THE MESOSCIENCE BY SKEYNDOR - MESOFILLER

## MESOFILLER

### ACTIVE :

Microcollagen: "Epidermal growing factor" (50 ppm of micro-collagen contained in the WRINKLE FILLER CONCENTRATE with active micro-collagen).

### MAIN PURPOSE :

"Filling in the dermal layer"

### RESULTS :

- In vitro (27ppm of micro-collagen):
  - Stimulation of collagen IV synthesis by fibroblasts: **+100 to +327%**
  - Stimulation of the synthesis of GAG (hyaluronic acid) by fibroblasts: **+267%**
- Ex vivo (using biopsy samples) (13,5 ppm of micro-collagen):
  - Stimulation of collagen synthesis: **+30 to +117%**
- In vivo (10 ppm of micro-collagen):
  - 2-4-6 month study: profilometry, self-evaluation, dermatological evaluation, macrophotography  
A panel of 25 subjects *versus* placebo / A panel of 10 subjects *versus* a commercial product containing 5% vitamin C.

**Results:** reduction of deep wrinkles by as much as 68%.  
Close correlation between profilometry and subjective and clinical assessments comparing with 5% of pure vit.C. Steady improvement over 2 months/4 months/6 months.

### ACTIVE :

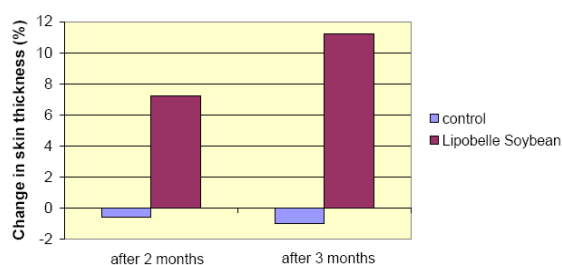
Liposomed polyphenoles (6000ppm of polyphenols contained in the WRINKLE FILLER CONCENTRATE with active micro-collagen).

### 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.



5: Increase of skin thickness after the application of an emulsion containing 3% Lipobelle Soy bean twice daily for 8 weeks.

**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 - MESOFILLER

## ACTIVE :

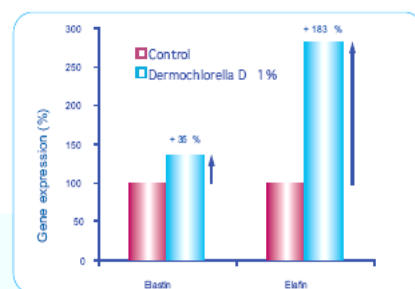
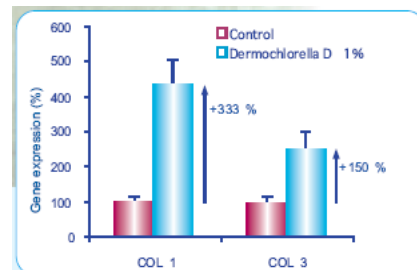
*Microalgae* (2000 ppm of micro-collagen contained in the WRINKLE FILLER CONCENTRATE with active micro-collagen).

## MAIN PURPOSE :

"Puts the brakes on ageing"

*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%**.

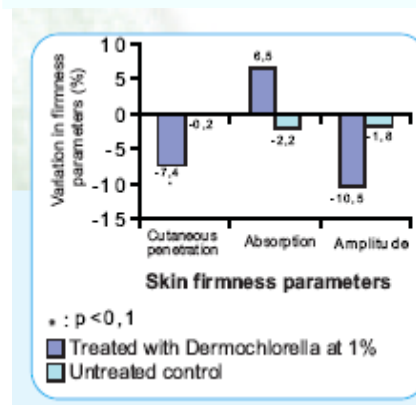


*In vivo* test (200 ppm of microalgae):

- 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.

