

SETILINE®

ANTI-GLYCATION

PATENT



ANTI-WRINKLE
SETILINE®

PHYTOBIOACTIVE

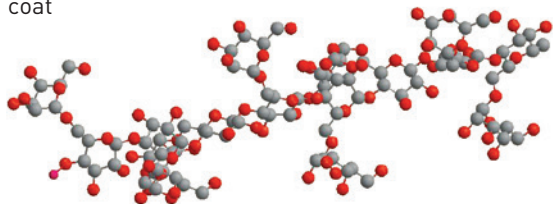
BIOTECHNOLOGY

> ACTIONS

- Anti-ageing, delays the ageing process
- Reduces wrinkles and lines
- Improves elasticity and firmness
- Increases epidermal thickness
- Reinforces the skin barrier

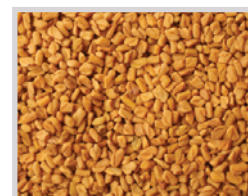
COMPOSITION

Oligogalactomannans purified by biotechnology from fenugreek seed coat



ORIGIN

Fenugreek, Trigonella
Trigonella foenum-graecum
(seed)



> MECHANISM OF ACTION

SETILINE® improves the skin overall architecture, by preserving it from dermal collagen and integrin glycation phenomena (major cause of ageing) and strengthens the skin barrier by reducing keratinocyte differentiation.

> COSMETIC BENEFITS

- The whole process and the signs of ageing are delayed.
- The epidermis regains thickness and firmness, skin is more elastic and supple, lines and wrinkles fade.

> COSMETIC USES

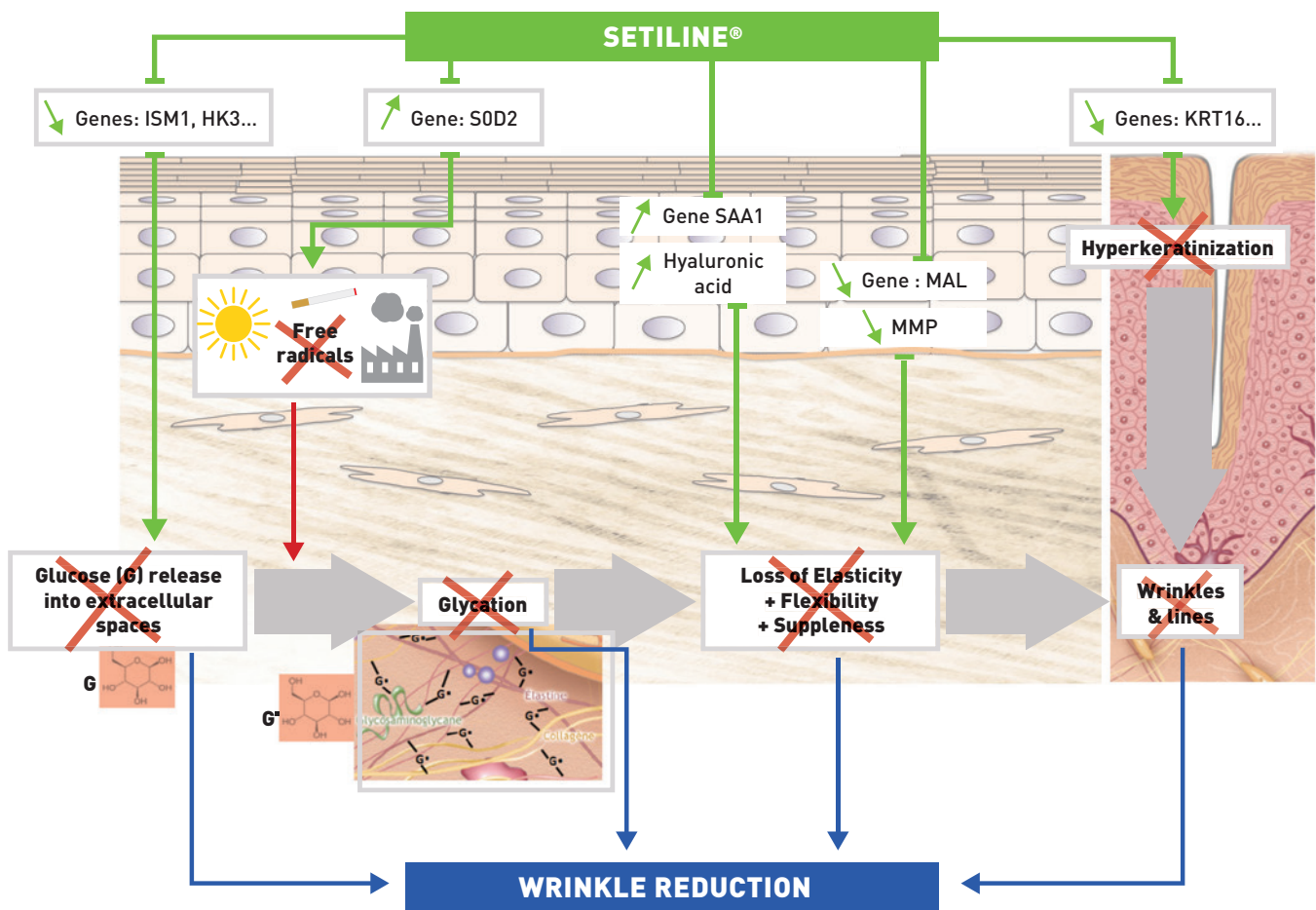
- ▶ **Anti-ageing care products**
- ▶ **Firming care products**
- ▶ **Moisturizing care products**
- ▶ **Anti-wrinkle care products**
- ▶ **Regenerative care products**

> SCIENTIFIC PROCESS

SETILINE® modifies the expression of specific genes involved in the glycation of collagens and integrins in the dermis, thereby maintaining a solid and flexible skin structure. This active substance inhibits the build-up of advanced glycation end-products (AGEs) and displays properties similar to those of retinoic acid by stimulating involucrin synthesis.

SETILINE® improves the biomechanical properties of the dermis and epidermis and preserves their structures, thus delaying the ageing process.

> DNA CHIP TRANSCRIPTOME ANALYSIS



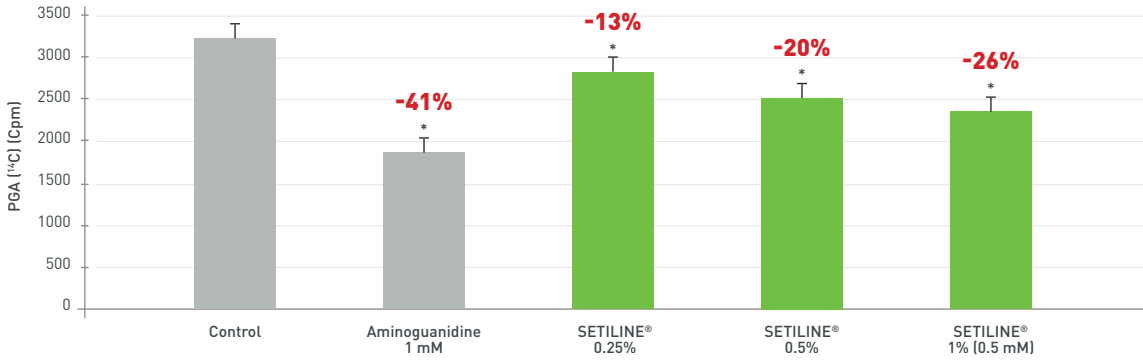
> PROVEN EFFICACY

IN VITRO TESTS

DERMAL action

ANTI-GLYCATION: REDUCTION IN ADVANCED GLYCATION END-PRODUCTS (AGES)

- SETILINE® inhibits AGE accumulation.
- SETILINE® improves dermal flexibility and elasticity.



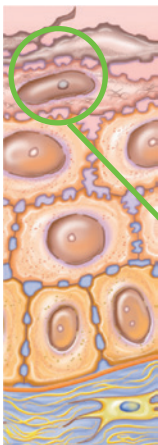
* Significantly different from control (p>0.05)

EPIDERMAL action

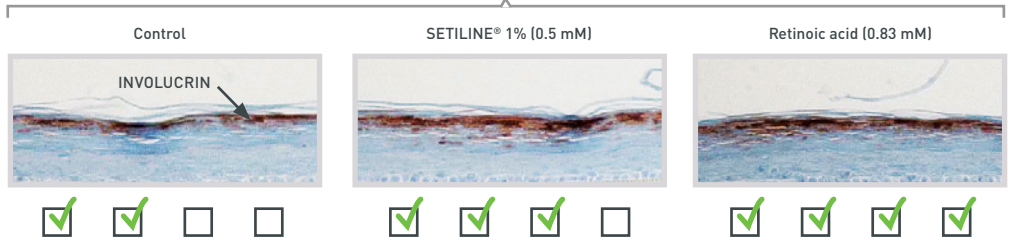
KERATINOCYTE DIFFERENTIATION

- SETILINE® possesses properties similar to those of retinoic acid. SETILINE® stimulates involucrin expression and improves the skin barrier function, thus preventing ageing.

Epidermal differentiation marker



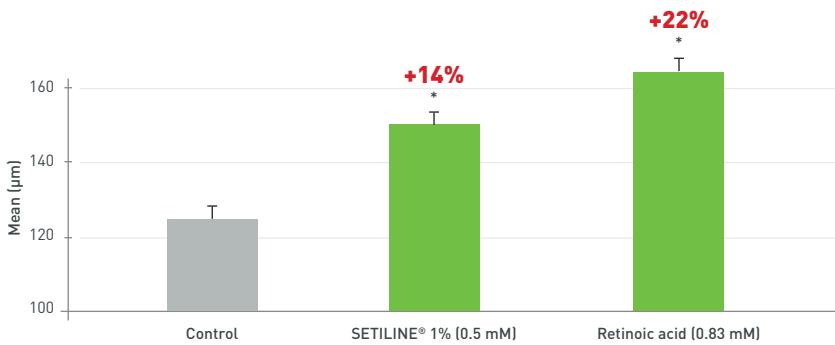
RECONSTRUCTED EPIDERMISES



EPIDERMAL action

EPIDERMAL THICKENING

- During ageing, the skin becomes thinner. SETILINE® increases epidermal thickness.



* Significantly different from control (p>0.05)

> PROVEN EFFICACY

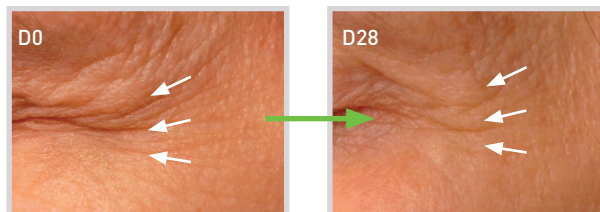


EVALUATION ON VOLUNTEERS*

- Cutometer® measurements (16 volunteers)
 - > Elasticity: **+45%**, up to **+214%**
 - > Firmness: up to **+93%**
- Fringe projection measurements / Primos® compact (15 volunteers)
 - > Anti-wrinkle: up to **-37%**
 - > Skin micro-profile smoothing: up to **-30.5%**



Volunteer no. 14



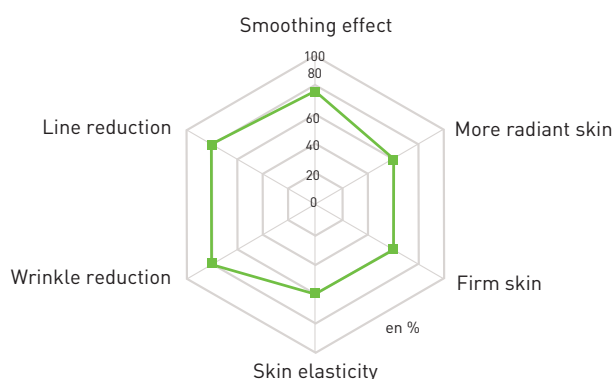
Volunteer no. 2

*28 days / 1% SETILINE® / twice-daily application

SELF-EVALUATION*

- **81%** of volunteers observed a reduction in wrinkles and lines, along with smoother skin

*28 days / 1% SETILINE® / twice-daily application / 21 volunteers



FORMULATION

Concentration for use: 1%
pH for use: 4.0 to 10.0

Caution for use

Solubilize previously in the aqueous phase. Add to emulsions, at the end of the preparation process, either cold or at 35-40 °C, during cooling.

TECHNICAL DATA

Characteristics

Organoleptic Appearance: powder
 Colour: white to pale yellow

Solubility Water: soluble
 ethanol: insoluble

Storage

Keep in a dark place, in the original packaging and at ambient temperature (15-25 °C). Use rapidly once opened, or transfer to sterile packaging.

Tolerance tests

- Eye irritation: practically non-irritant
- Skin irritation: non-irritant
- Mutagenicity: non-mutagenic and non-pro-mutagenic
- Sensitization: hypoallergenic
- Phototoxicity: non-phototoxic

INCI name: Hydrolyzed Trigonella Foenum-Graecum Seed Extract

Preservative: None

Authorized:

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