



BIOTECHNOLOGY



FINE  
CHEMISTRY



VEGETAL  
EXTRACTION

By Solabia

*Clear skin*

*Self-esteem*

*Perfecting*



**Saniskin®**

[The Skin Sanitizer]

*The promise of healthy skin!*

*Unique alliance*  
of a **JAPANESE KNOTWEED** extract enriched in  
bioconverted polyphenols and **MYRISTYL PCA**

A global **4-IN-1 ACTION** against **ACNE-PRONE SKIN**

to **ERASE VISIBLE PORES** and **BLEMISHES**

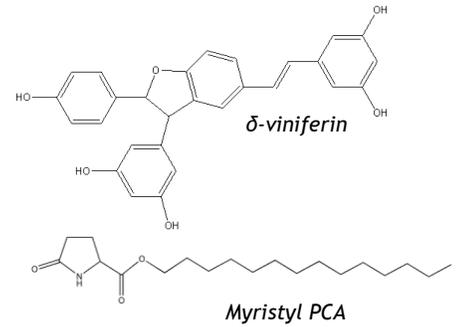


Between **Nature** & **Technology**

## Mode of action

SANISKIN® is the unique alliance between two molecules selected for their complementary actions against acne-prone skin: the myristyl PCA (obtained by esterification of the L-pyrrolidone carboxylic acid and myristyl alcohol), the  $\delta$ -viniferin and other polyphenols resulting from a biotechnological process of bioconversion from an extract of Japanese knotweed (*Polygonum cuspidatum*).

SANISKIN® offers a multi-parameter approach through a 4-in-1 global action to cope with acne-prone skin: modulation of the sebaceous gland activity, protection of the sebum quality against oxidation, limitation of *P.acnes* proliferation, and decrease of skin inflammation.



## Tests

### REGULATION OF SEBUM PRODUCTION

#### Anti-5 $\alpha$ reductase activity

On fibroblasts / Addition in medium of 0.1% SANISKIN® for 2h or not (untreated control) / Incubation with testosterone for 24h / Quantification by ELISA kit of the 5 $\alpha$ -dihydrotestosterone, correlated to 5 $\alpha$ -reductase activity

#### Regulation of enzyme activity

**-61% vs. control** ( $p < 0.01$ )

↘ **Sebum production**

### PROTECTION OF SEBUM AGAINST OXIDATIVE STRESS

On sebum stressed with hydrogen peroxide / Addition (at the same time) of 1% Trolox (reference molecule) or 1% and 2% SANISKIN® for 1h / Extraction and quantification of the different components of sebum

Preservation of the waxes and free fatty acids, quantities close to the ones of unstressed sebum

↘ **Sebum oxidation involved in bacteria proliferation and inflammation**

### INHIBITION OF *P.ACNES* GROWTH

#### Anti-bacterial activity

Preparation of *P.acnes* solution in a Schlader medium / Incubation for 3 days of *P.acnes* solution + SANISKIN® and *P.acnes* solution + Benzoyl peroxide and *P.acnes* solution + Salicylic acid at various concentrations / Spreading of the 3 suspensions on Columbia sheep blood agar / Bacterial counts at D7

IC50 SANISKIN®: **0.018%**

IC50 Benzoyl peroxide: **0.41%**

IC50 Salicylic acid: **0.33%**

**IC50 = Half maximum Inhibitory Concentration**

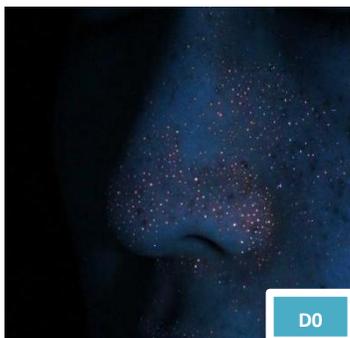
Refers to the concentration of a substance which induces 50% of inhibition of bacterial growth

**X 20**

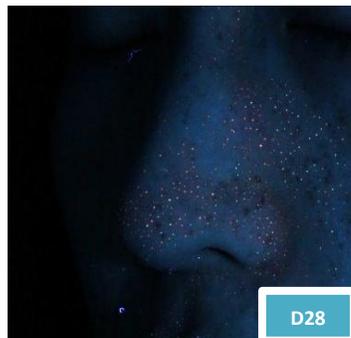
Anti-bacterial activity against *P.acnes* vs. benzoyl peroxide and salicylic acid

#### Regulation of *P.acnes* proliferation

Topical application on Korean volunteers (males and females) with oily skin/skin prone to acne, twice a day of a cream containing 1.5% SANISKIN® for 28 days / Photography under UV light with VISIA CANFIELD device and evaluation of the number of pores with protoporphyrins fluorescence, correlated to pores with *P.acnes* hyperproliferation



D0



D28

Decrease of *P. acnes* proliferation in pores ( $p < 0.05$ ):

**-14%** of average reduction vs. T0

**-69%** of maximum reduction vs. T0

**Prevention of inflammatory blemishes**

## MODULATION OF INFLAMMATION

Evaluation of Cyclooxygenases 1 and 2 (COX-1 and COX-2) activities with SANISKIN® / Quantization of PGF<sub>2α</sub> by ELISA kit

**Until -89%** of COX-1 activity inhibition  
**Until -68%** of COX-2 activity inhibition

↘ **Blemish Redness**

↘ **Inflammation involved in acne appearance and duration**

## BENEFITS

### Decrease in pore enlargement

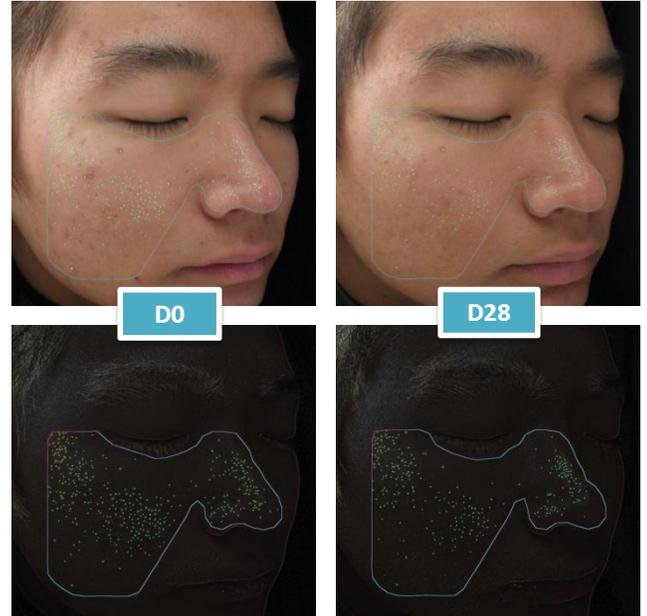
Topical application on Korean volunteers (males and females) with oily skin/skin prone to acne, twice a day of a cream containing 1.5% SANISKIN® vs. Placebo, for 28 days / Photography with VISIA CANFIELD device and evaluation of the number of visible pores (enlarged pores)

**Reduction of the number of visible pores** (p<0.05):

On average **-16%** vs. T0  
**-15%** vs. Placebo

Maximum **-84%** vs. T0

↘ **Dullness**



### Decrease of inflammatory blemishes

Topical application on Korean volunteers (males and females) with oily skin/skin prone to acne, twice a day of a cream containing 1.5% SANISKIN® vs Placebo, for 28 days / Counting by a dermatologist of inflammatory blemishes (papules, pustules...)

**Reduction of the number of inflammatory blemishes vs. T0** (p<0.05):

Papule number: **-58%** on average  
**-100%** maximum

Inflammatory blemish number: **-59%** on average  
**-100%** maximum

↗ **Healthy skin appearance**

### Global benefits (auto-evaluation)

Topical application on Korean volunteers (males and females) with oily skin/skin prone to acne, twice a day of a cream containing 1.5% SANISKIN® vs Placebo, for 28 days / Auto-evaluation of benefits (agree/disagree)

**The skin appears clearer, healthier and feels more comfortable**

Criteria	% of volunteers agree with the affirmation
Blemishes less visible	67%*
Scars left by blemishes less visible	57%*
Skin less oily	81%*
Pores more tightened/less visible	67%*
Healthier skin	76%*
Skin more comfortable	76%*
Smoother skin	90%*
Softer skin	81%*

\*p<0.05

## Product Characteristics

- ▶ **INCI/CTFA Name**  
none
- ▶ **Preservative**  
none
- ▶ **Recommended dose**  
1.5% (clinical dose)

Propanediol (and) Water (and) Polygonum cuspidatum root extract (and) Myristyl alcohol (and) PCA

Raw material approved by ECOCERT GREENLIFE according to the Ecocert Standard for natural and organic cosmetics



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## Contact us

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**S**OLABIA GROUP

FRANCE

+33 1 48 10 19 40

**S**OLABIA USA

UNITED STATES

+1 212 847 2397

**S**OLABIA BIOTECNOLOGICA

BRAZIL

+55 44 3260 8000

**S**OLABIA GmbH

GERMANY

+49 681 99 63 606

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[www.solabia.com](http://www.solabia.com)

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*Between* **Nature & Technology**

