

VITALISIS[®]



CITY-FRIENDLY / Detoxifying

CITY FRIENDLY

A dose of vitality
to restore skin balance
in urban life.

 **Sollice**
BIOTECH

OUR SKIN NEEDS A HAND TO ADAPT TO URBAN LIFESTYLES.

VITALISIS® IS OUR “CITY-FRIENDLY” COSMETIC ACTIVE INGREDIENT.
IT ADAPTS THE SKIN TO THE ENVIRONMENTAL STRAIN
OF URBAN LIFESTYLES

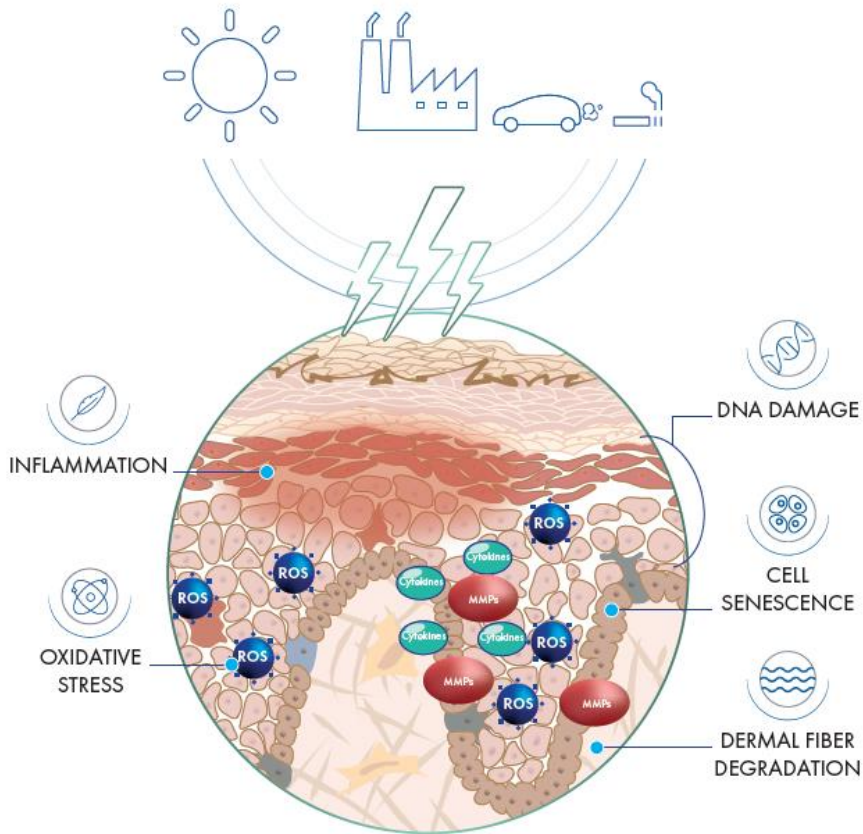
VITALISIS®



VITALity + PoLIS + HomeostasIS

In addition to its protective role, VITALISIS® restores and reinforces the skin's natural defenses in urban environments, in order to bring back harmony.

TO FIGHT SKIN PHYSIOLOGY DISORDER



VITALISIS® accompanies the skin to help it adapt to environmental stress.

VITALISIS® covers the **5 aspects of skin pollution.**

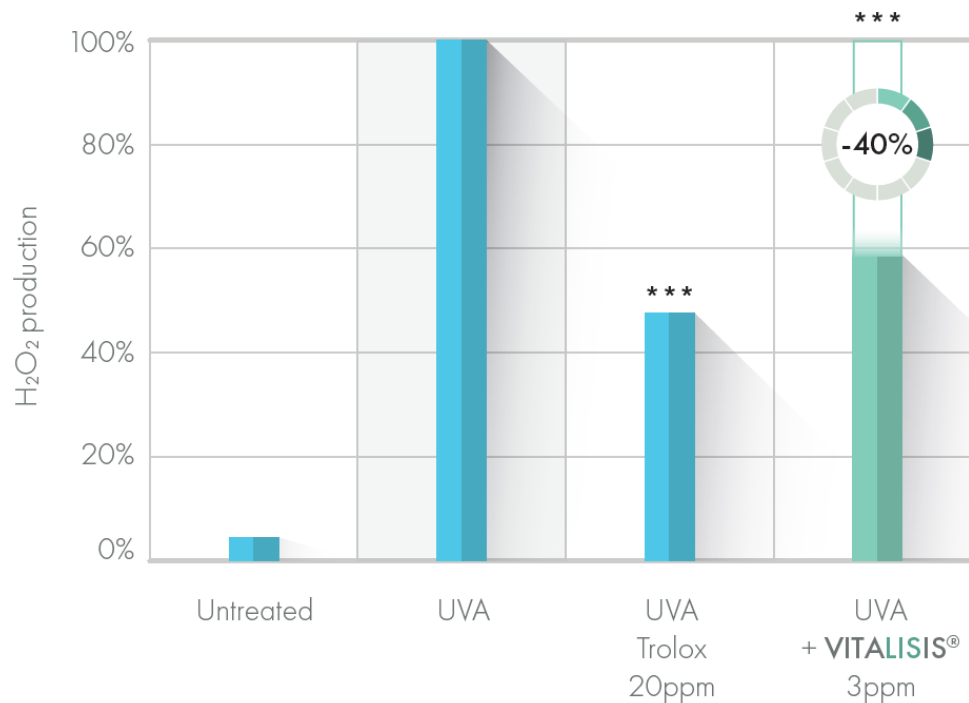
To demonstrate its preventative and curative effects, VITALISIS® has been **tested for gene/protein expression and appearance modification in different skin models (cells, explants and volunteers)** after they were submitted to a range of stress factors (UV, heavy metals, cigarette smoke and urban pollution).

BIOLOGICAL ACTIVITY



PROTECTION FROM OXIDATIVE STRESS

VITALISIS[®] strongly decreases oxidative stress & keeps the skin detoxified.



Quantification of H₂O₂ in Keratinocytes exposed to UVA and 24h of Trolox or VITALISIS[®] treatment.

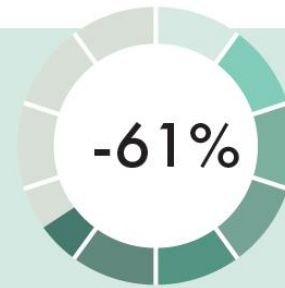
*** $p < 0,001$

CLINICAL EFFICACY

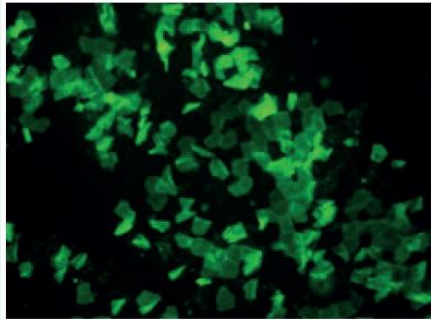


PROTECTION FROM OXIDATIVE STRESS

CARBOXYLATED PROTEINS

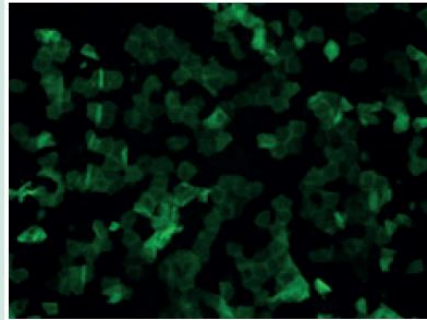


Day 0



Carbonylated proteins were labeled with a fluorescent probe (FTZ) on skin sample surface at day 0 and day 28. (Corneocytes obtained using a cotton swab).

Day 28



Results with two applications a day of a cream containing 1% of VITALISIS®, applied after facial cleansing for 28 days.

Tests conducted on 21 women, aged 30 to 50, who have an urban lifestyle and with a dull complexion.

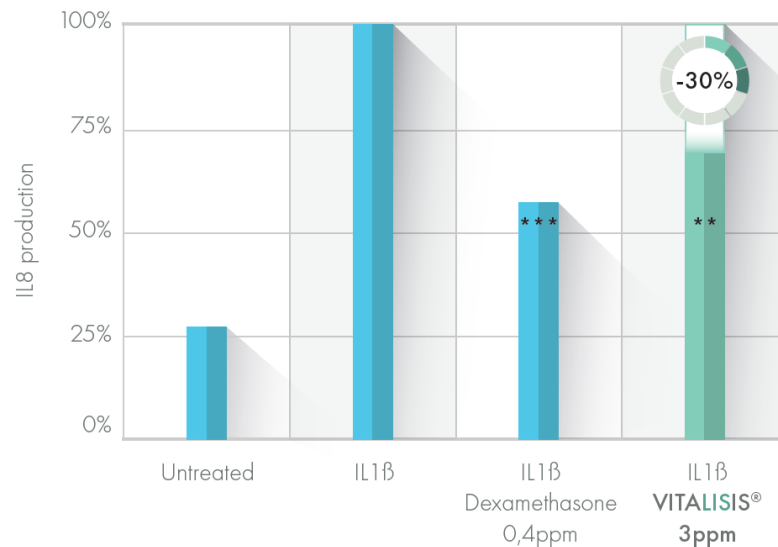
BIOLOGICAL ACTIVITY



SOOTHING EFFECT

VITALISIS® controls the expression of the main inflammation mediators & decreases skin redness.

PROTEIN EXPRESSION



IL8 production quantified by ELISA in Keratinocytes exposed to a pro-inflammatory treatment using IL1β and Dexamethasone or VITALISIS® during 24h.

*** 0,001 < p < 0,01 *** p < 0,001*

CLINICAL EFFICACY



SOOTHING EFFECT

REDNESS



Results with two applications a day of a cream with 1% of VITALISIS[®], applied after facial cleaning for 28 days.

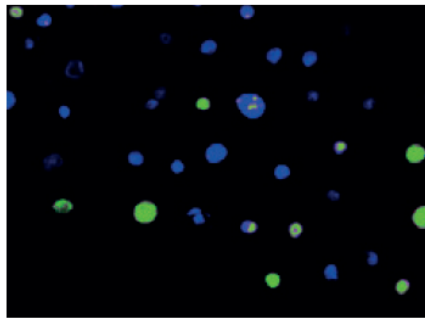
Tests conducted on 21 women, aged 30 to 50, who have an urban lifestyle and with a dull complexion. Redness was assessed by clinical evaluation of skin complexion.

BIOLOGICAL ACTIVITY



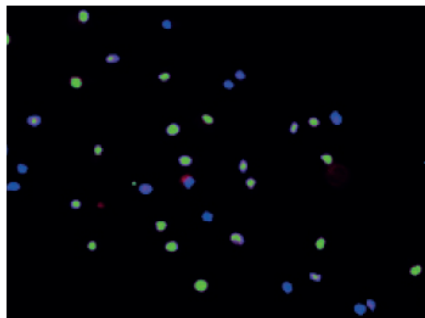
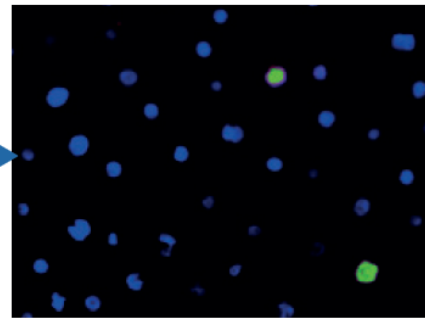
DNA PROTECTION

Cigarette smoke extract

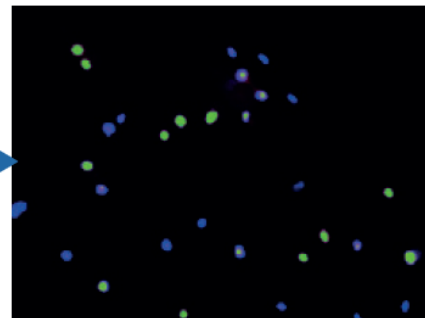


Keratinocytes

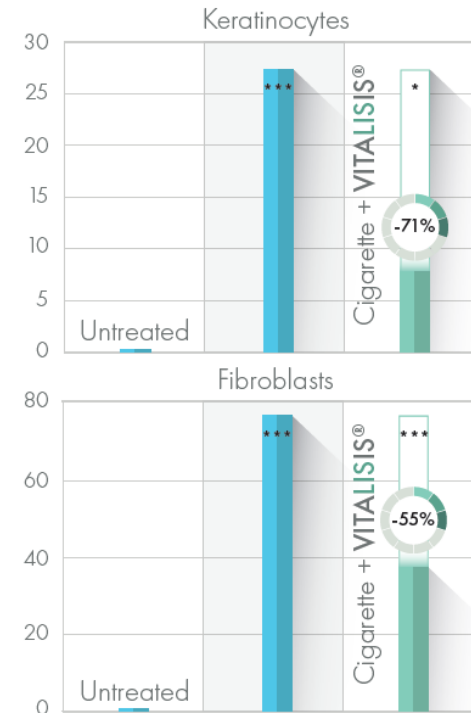
Cigarette smoke extract
+ VITALISIS®



Dermal Fibroblasts



γ H2AX positive cells (%)



Quantification of γ H2AX positive cells (in green) labelled by immunofluorescence in Keratinocytes or dermal Fibroblasts after exposure to cigarette smoke extract and treatment with VITALISIS® (10 ppm) during 24h. (***) $p < 0.001$, * $p < 0,05$).

BIOLOGICAL ACTIVITY

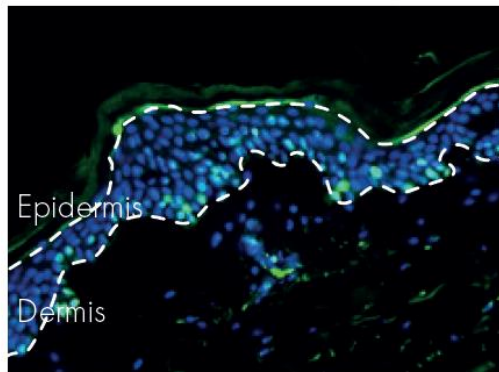


DNA PROTECTION

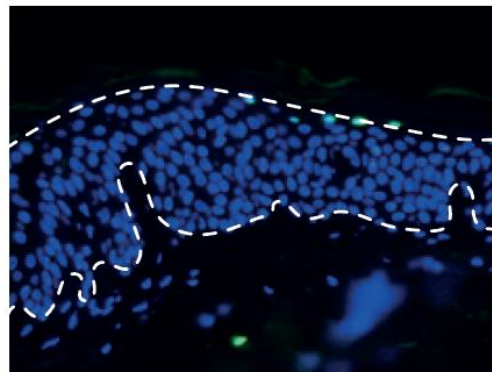
γ H2AX marked the cells containing DNA damages.

On different models exposed to a range of stress factors, VITALISIS® strongly decreases the amount of γ H2AX positive cells representing DNA damaged cells.

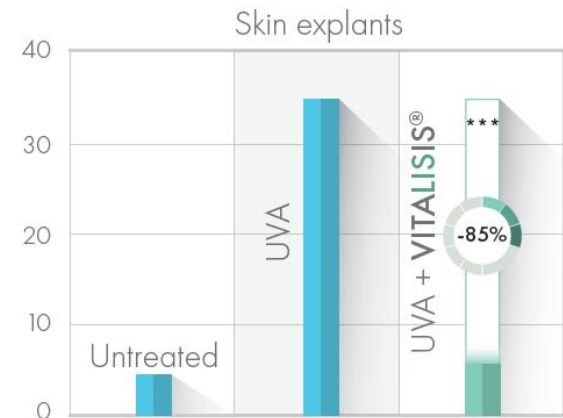
UVA



UVA + VITALISIS®



γ H2AX positive cells (%)



Quantification of γ H2AX positive cells (in green) by immunofluorescence in skin explant exposed to UVA after 24h of VITALISIS® treatment at 100ppm. *** $p < 0,001$.

BIOLOGICAL ACTIVITY



DNA PROTECTION

VITALISIS® activates the Sirtuin 6 in dermal cells & maintains the genome integrity.

Gene +66% (qPCR) / Protein +14% (Immunofluorescence)

Sirtuin 6 takes part in the overall preservation of genome stability, it is implicated in DNA repair and telomere protection.

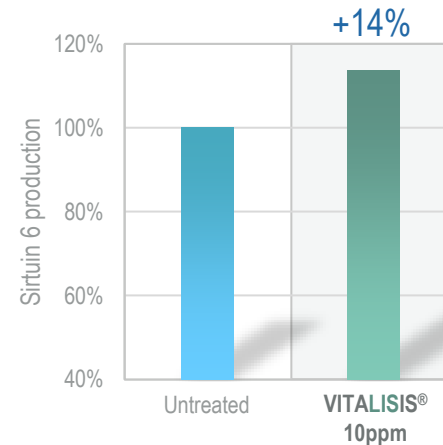
GENE EXPRESSION

SIRT6 gene +66% in fibroblasts



Gene expression quantified by qPCR on skin cells after 24h of VITALISIS® treatment (3ppm).

PROTEIN EXPRESSION



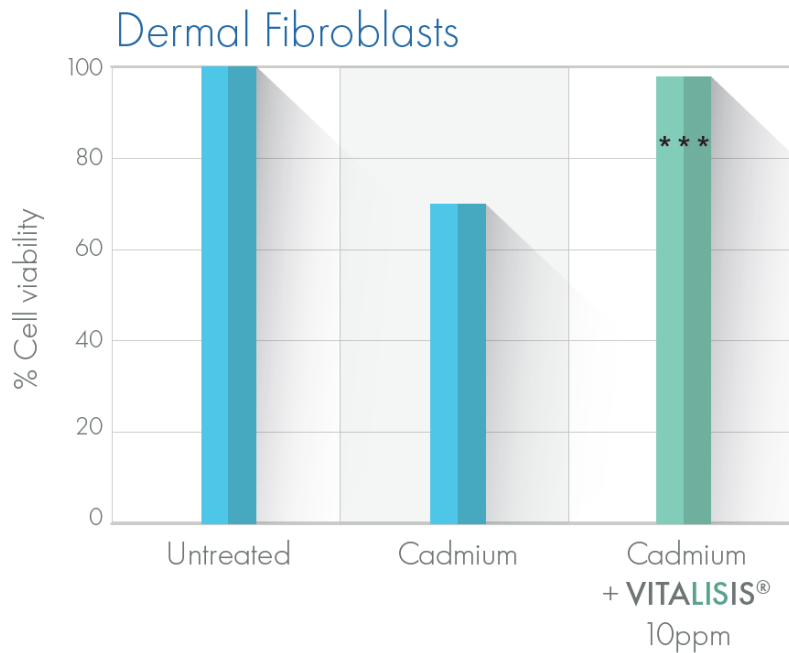
Sirtuin 6 production quantified by Immunofluorescence in skin cells after 48h of VITALISIS® treatment (10ppm).
*** $p < 0,001$

BIOLOGICAL ACTIVITY



PREVENTION FROM SENEESCENCE

Regardless of the stress factor applied, VITALISIS® maintains the longevity of skin cells.



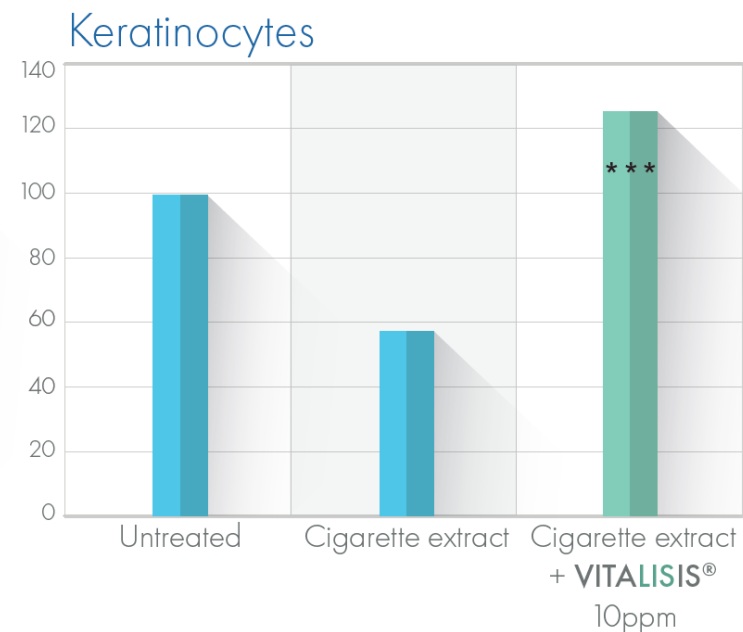
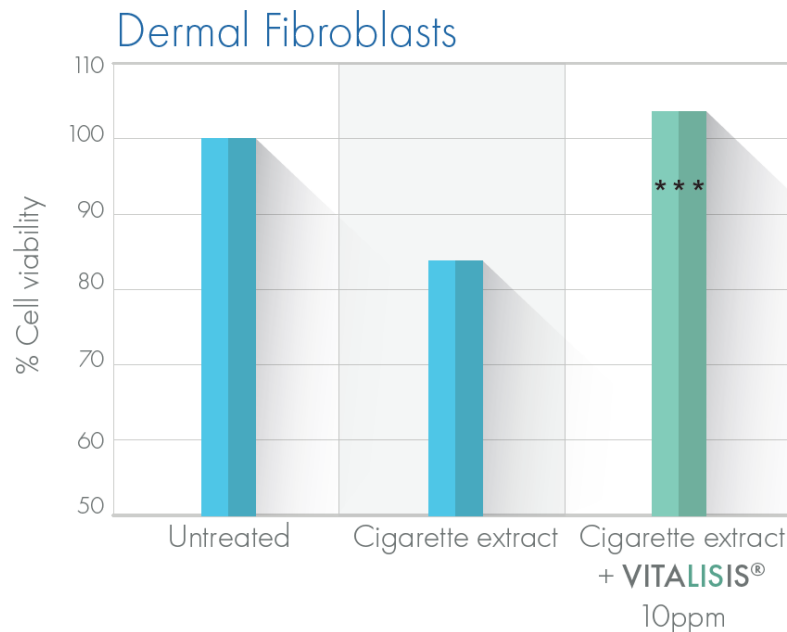
Quantification of cell viability in dermal fibroblasts after exposure to cadmium heavy metal and treatment with VITALISIS® during 24h.
(*** $p < 0,001$)

BIOLOGICAL ACTIVITY



PREVENTION FROM SENEESCENCE

Regardless of the stress factor applied, VITALISIS® maintains the longevity of skin cells.



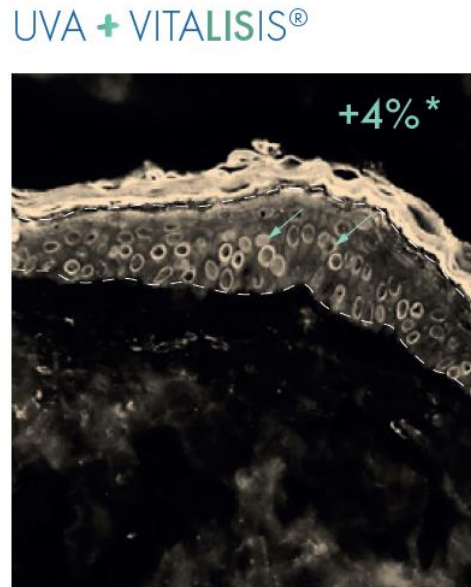
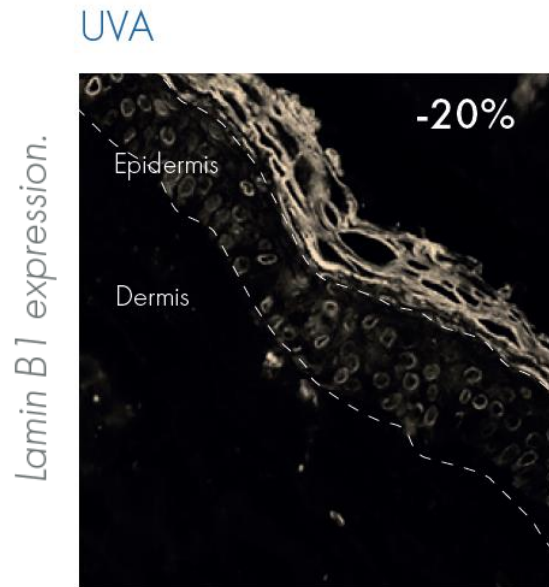
Quantification of cell viability in dermal Fibroblasts and Keratinocytes culture after exposure to cigarette smoke extract and treatment with VITALISIS® during 24h. (***) $p < 0,001$

BIOLOGICAL ACTIVITY



PREVENTION FROM SENESCENCE

Lamin B1 is a marker that decreases with senescence and requires to be balanced to maintain cell survival. Cell vitality is essential to a healthy skin as it preserves skin texture.



Quantification of Lamin B1 by immunofluorescence in skin explant exposed to UVA after 24h of VITALISIS® treatment (100ppm).

* $p < 0,05$

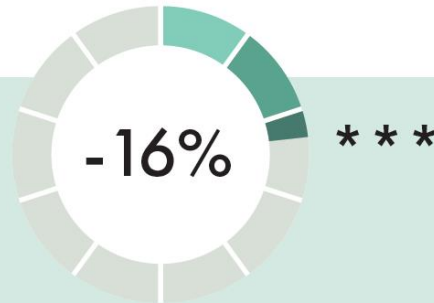
VITALISIS® AVOIDS THE DECREASE OF LAMIN B1
PROTECTING THE SKIN FROM CELLULAR SENESCENCE.

CLINICAL EFFICACY



PREVENTION FROM SENESCENCE

ROUGHNESS



Cell viability is warrant of a good skin texture.

Results after two applications a day of a cream containing 1% of VITALISIS[®], applied for 28 days after facial cleansing. Tests conducted on 21 women, aged 30 to 50, who have an urban lifestyle and with a dull complexion.

Skin texture was analyzed via VISIA-CR.

BIOLOGICAL ACTIVITY

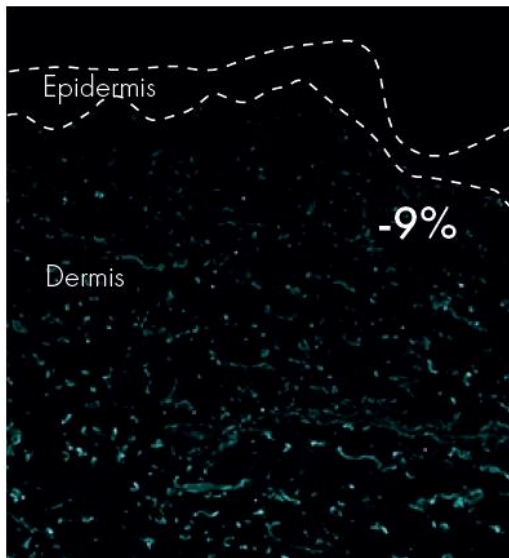


PRESERVATION OF DERMAL FIBERS

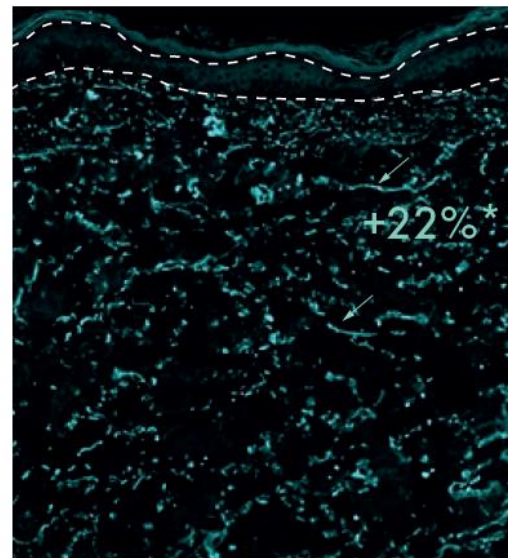
VITALISIS® restores the elastic fibers & protects Collagen fibers from degradation.

Elastic fibers are shortened by UVA exposition.
VITALISIS® restores the fibrous aspect.

UVA



UVA + VITALISIS®



Quantification of Elastin by immunofluorescence in skin explant exposed to UVA after 24h of VITALISIS® treatment at 100ppm.

* $p < 0,05$

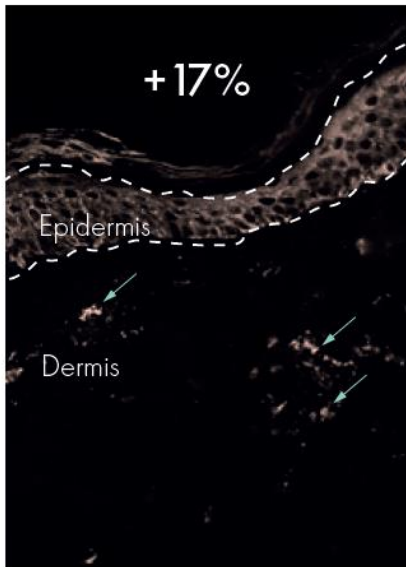
BIOLOGICAL ACTIVITY



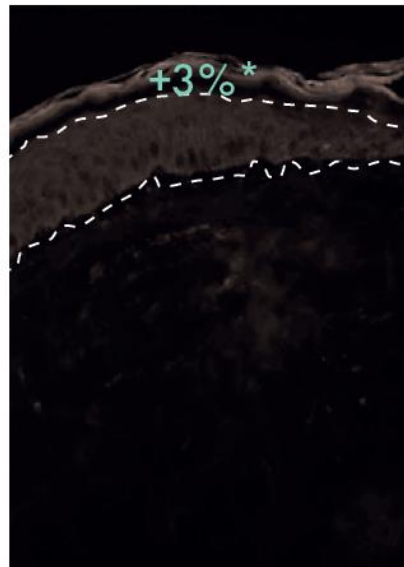
PRESERVATION OF DERMAL FIBERS

MMP1 is produced by dermal fibroblasts and degrades Collagen.
VITALISIS® prevents its activation.


UVA



UVA + VITALISIS®



Quantification of MMP1 by immunofluorescence in skin explant exposed to UVA after 24h of VITALISIS® treatment at 100ppm.
* $p < 0,05$

A person in a white lab coat and cap stands on a balcony, pointing towards a city skyline at sunset. The skyline includes the Oriental Pearl Tower and other skyscrapers. The scene is bathed in the warm, golden light of the setting sun.

All these biological analyses confirm that VITALISIS® restores and maintains the skin balance in urban environments. The effects are validated in a clinical study.

THANKS TO VITALISIS®
THE SKIN IS RADIANT & PURIFIED

CLINICAL EFFICACY - USERS FEEDBACK

COMPLEXION IMPROVEMENT

- Area of application: **Face**
People with an urban lifestyle and a dull complexion.
- Product vs placebo
- Bi-daily use
- Measurements: **Skin health, detoxified skin**
- Devices : Self-assessment questionnaire



1 %
Use

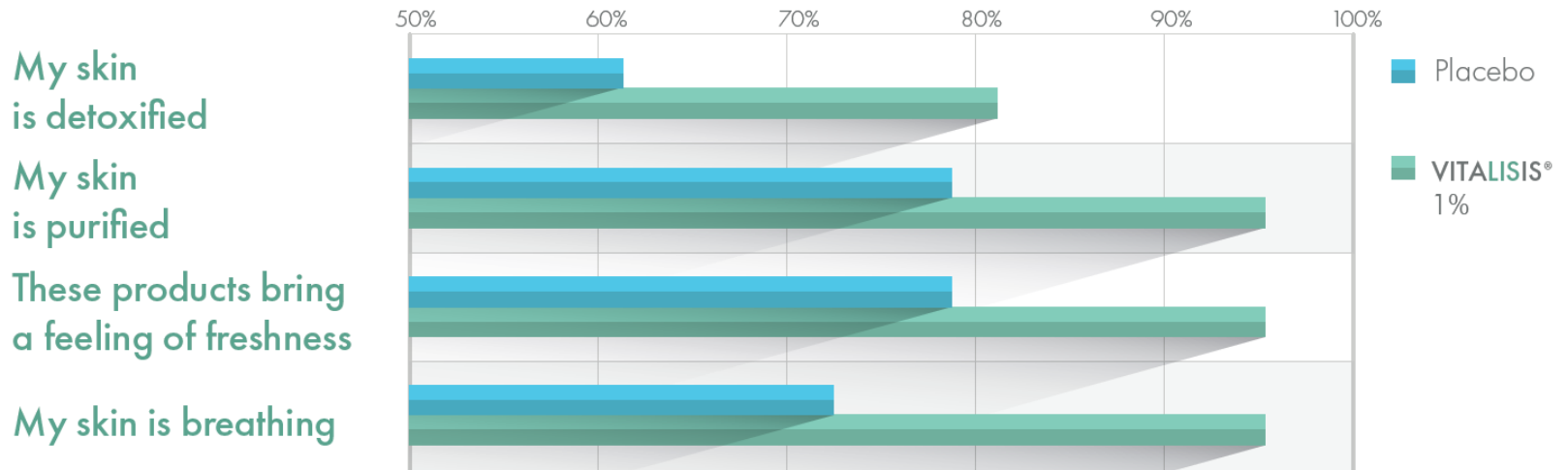
28 
Days

42  
Volunteers

30-50 Years-old

CLINICAL EFFICACY

USERS TESTIFY



86% of volunteers are satisfied of the products versus 68% for the placebo.

VITALISIS® IS YOUR PARTNER FOR INDOOR AND OUTDOOR CITY LIFE.
IT BOOSTS THE SELF-DEFENSE MECHANISMS OF THE SKIN.

TECHNICAL INFORMATION

At low concentrations, VITALISIS® can be incorporated in all types of cosmetics.
For purified, unified, radiant and soothed skin.

A SKIN THAT BREATHES.

APPLICATIONS

- Face care
- Body care
- Sun care
- Sensitive skin
- Hair care

INCI NAME

Citrus Lemon Fruit Extract,
Pyridoxine, Glycerin

ASPECT

Slightly Yellow

DOSE OF USE 1%

SOLUBILITY

Water soluble



TECHNICAL INFORMATION

COSMETIC APPLICATION



See the book

