

ALGISIUM C[®]

SKIN RESTRUCTURATION
BODY FIRMING
LIPOLYSIS
SOOTHING
ANTI-STRETCH MARKS
FACE AND BODY MOISTURIZER
ANTI-OEDEMA

EXSYMOL
MONACO

ALGISIUM C[®]

ALGISIUM C[®] is a SILANOL, a cosmetic active range of patented active ingredients relying on the silicium technology. EXSYMOL's research managed to stabilize and improve the cutaneous bioavailability of organic silicium synthesizing monomethylsilanetriol.

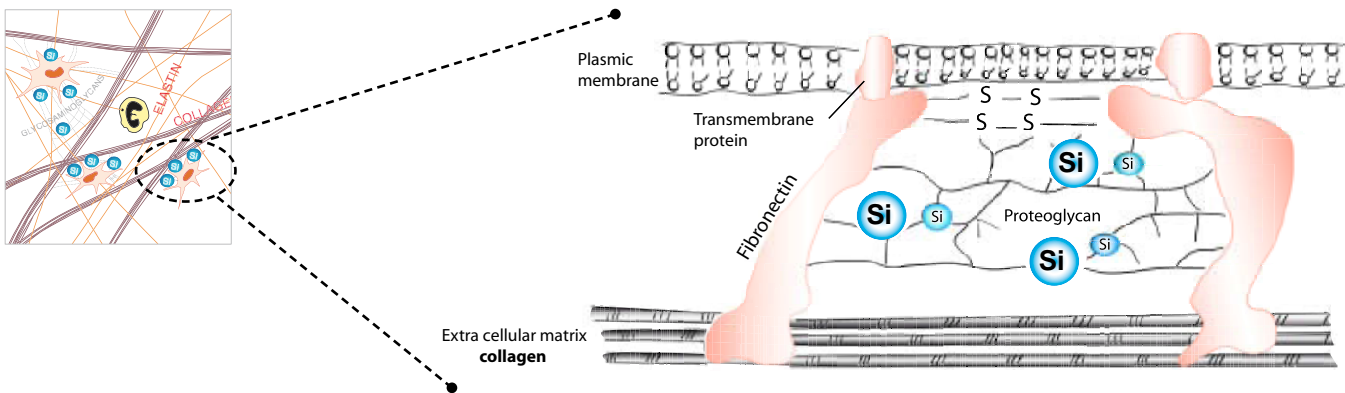
ALGISIUM C[®] is a multi-functional active ingredient. Its broad efficacy and cosmetic interest, substantiated by EXSYMOL's constant research and confirmed by the

feedbacks of worldwide customers, make of this active ingredient a reliable partner for various cosmetic applications. Moreover, the "silanol technology" appears as a basement for firming and anti-aging body restructuring. Besides its benefits as an active ingredient, ALGISIUM C[®] and more broadly the SILANOLS have a long lasting skin restructuring activity that can optimize the noticeable benefits of other active ingredients.

ORGANIC SILICIUM and cutaneous tissue

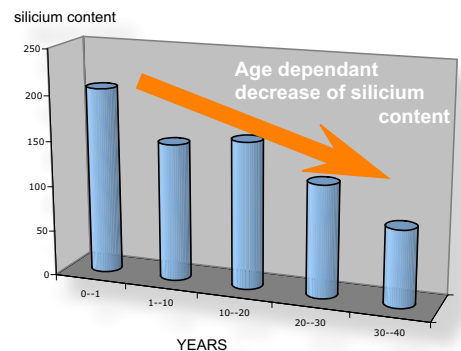
Skin's natural silicium is a structural component of the connective tissue. It can be compared to dermal cement that ensures optimal links between the elements of the extra cellular matrix such as glycoaminoglycans and proteoglycans.

Organic silicium restructuring activity helps maintaining skin's mechanical's properties such as elasticity, firmness but also preserves cell's optimal metabolic efficiency.



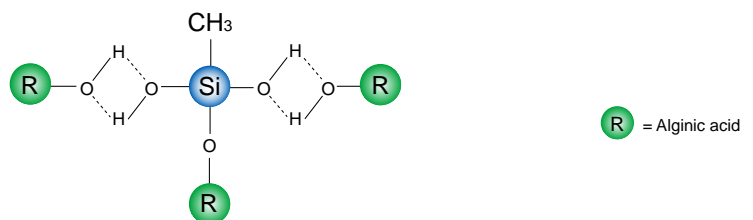
ORGANIC SILICIUM and skin aging

With aging, skin organic silicium content naturally decreases. Less elastic and structured, the cutaneous tissue is slowly collapsing, first fine wrinkles appear.



The SILANOL cure

Targeting skin rejuvenation, it is essential to compensate the observed natural loss of organic silicium. ALGISIUM C[®] is among the most effective source of available silicium. It can be directly assimilated by the skin and persistent towards the slow and inevitable collapse of the skin.





ALGISIUM C[®]

INCI NAME: METHYLSILANOL MANNURONATE

ALGISIUM C[®] represents a bio available source of organic silicium, rich in hydroxyle functions. ALGISIUM C[®] activity at the connective tissue level is its main advantage and opportunity for slowing down skin's premature aging.

SKIN BENEFITS

CUTANEOUS CONNECTIVE TISSUE RESTRUCTURATION

Optimized dermo-epidermic cooperation

- SCIENTIFIC PUBLICATION_0643

Optimized cutaneous regeneration

- SCIENTIFIC PUBLICATION_0141

Protection against free radicals

- SCIENTIFIC PUBLICATION_0141

Protection against the glycation of the cutaneous structural proteins (collagen, elastin)

- SCIENTIFIC PUBLICATION_0141

Skin inflammation control

- SCIENTIFIC PUBLICATION_0143

Normalization of the lipolytic activity

- SCIENTIFIC PUBLICATION_0142

COSMETIC APPLICATIONS

SKIN REPAIR – Prevention and restructuration

SKIN FIRMING AND ELASTICITY – Collagen production stimulation

LIPOLYSIS – Body slimming and helps reduce dark circles

SOOTHING – Anti free radicals and inflammatory response control

ANTI STRETCH MARKS – Deep hydration and optimized collagen quality

FACE AND BODY HYDRATION – Intense and long lasting

ALGISIUM C®

PREVENTION against skin's premature aging

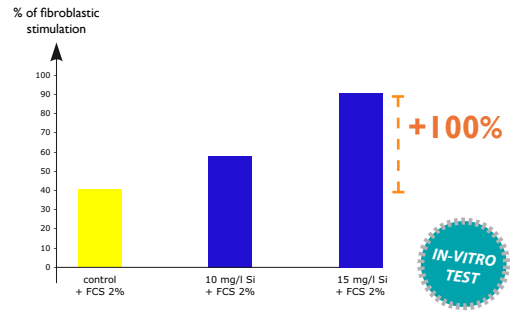
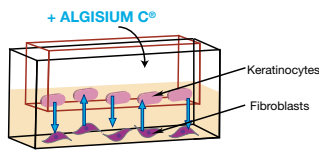
DERMO-EPIDERMIC COOPERATION

SCIENTIFIC PUBLICATION_0643

Evaluation of silicium potential on intercellular communication

After incubation with different concentrations of ALGISIUM C®, keratinocytes have demonstrated fibroblastic growth induction (proliferation and differentiation).

=>ALGISIUM C® by normalizing keratinocytes metabolism induces up to 100% fibroblastic stimulation by normalizing keratinocytes metabolism.



CUTANEOUS REGENERATION

SCIENTIFIC PUBLICATION_0141

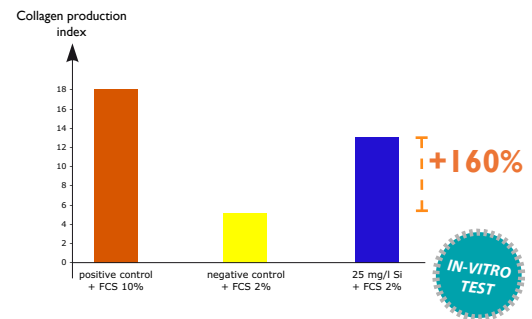
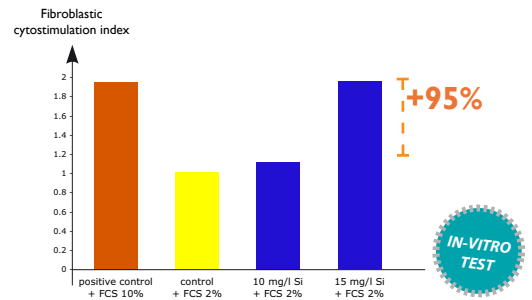
Evaluation of silicium potential on fibroblastic cyto stimulation

After incubation with different concentrations of ALGISIUM C®, “aged” fibroblasts (FCS 2%) have demonstrated proliferative activity.

Evaluation of silicium potential on collagen production

ALGISIUM C induces a boosted collagen production over “aged” fibroblasts (FCS 2%).

=>ALGISIUM C® induces cellular regeneration and optimizes the synthesis of structural element such as collagen.



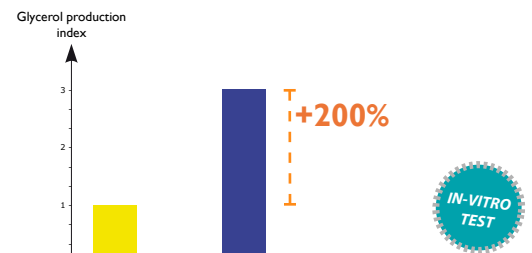
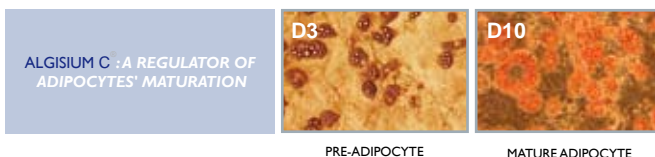
LIPOLYTIC ACTIVITY

SCIENTIFIC PUBLICATION_0142

Evaluation of silicium potential on glycerol production (reaction product of lipolysis)

=>ALGISIUM C® induces the release of excess fatty acid contained in adipocytes.

=>ALGISIUM C® induces a down regulation of pre-adipocytes maturation.



ALGISIUM C[®]

PROTECTION against skin's premature aging

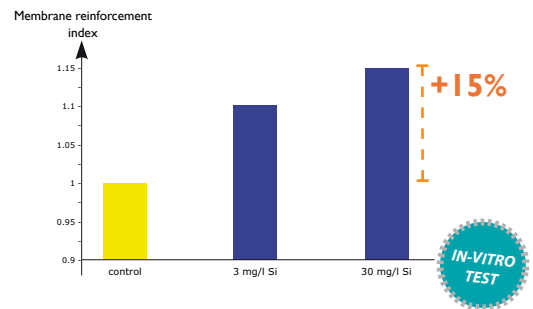
FREE RADICALS PROTECTION

SCIENTIFIC PUBLICATION_0141

Evaluation of silicium potential on cell's membrane reinforcement

After incubation with different concentrations of ALGISIUM C[®], an increase of cell's membrane order is observed, that optimizes cells protection against free radicals.

=>ALGISIUM C[®] improves cell's protection against damage induced by toxic species by increasing membranes resistance.



ANTI-GLYCATION

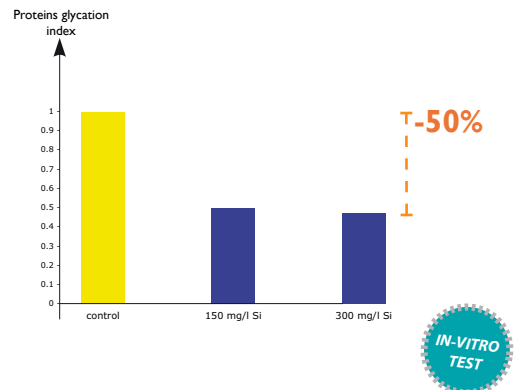
SCIENTIFIC PUBLICATION_0141

Evaluation of silicium's potential against the generation of cross-linked collagen



Silicium's strong affinity with dermis structural protein fibers (collagen, elastin...) limits the available sites of cross-linking.

=>ALGISIUM C[®] preserves structural proteins elasticity and delays the first visible signs of skin premature aging (wrinkles, uneven skin tone...).



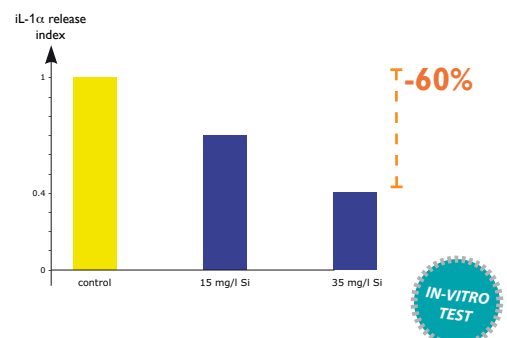
ANTI-INFLAMMATORY

SCIENTIFIC PUBLICATION_0143

Evaluation of silicium potential on limiting iL-1 α

After incubation with different concentrations of silicium, UV exposed keratinocytes express less iL-1 α , describing less severe inflammatory response.

=>ALGISIUM C[®] soothing action protects skin against severe and damageable inflammatory response.



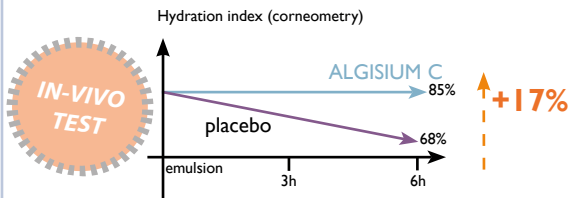
ALGISIUM C®

ANTI-AGING HYDRATION

SCIENTIFIC PUBLICATION _0140

Long lasting cutaneous moisturization assessed by corneometry

ALGISIUM C®, dermal restructuring activity, enables the creation of deep cutaneous hydration spheres for long lasting benefits.



Anti-aging benefits of an optimized cutaneous hydration assessed by corneometry



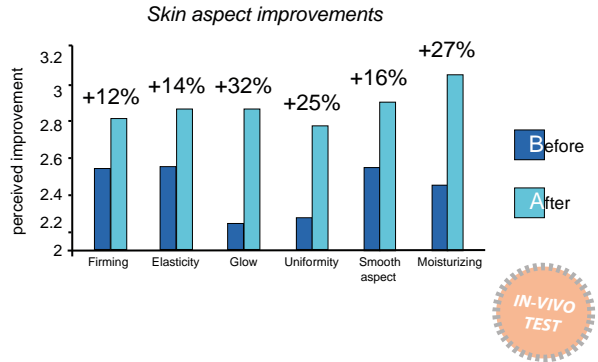
High performance and long lasting hydration reinforces skin resistance against the signs of premature aging.

Elasticity +20%
Roughness -30%
Desquamation +25%

ANTI-AGING AND ANTI-STRETCH MARKS

SCIENTIFIC PUBLICATION _1144

Clinical evaluation of skin premature aging criteria after treatment

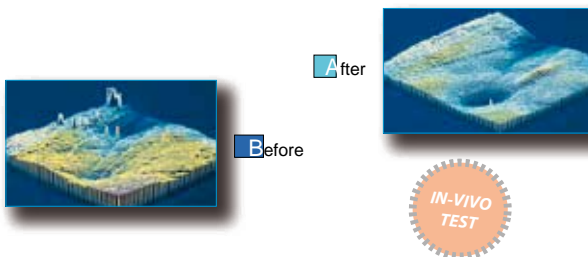


ALGISIUM C® improves all major anti-aging targets, among which less classical criteria such as skin tone radiance. These overall improvements help global body care and can even be very effective to prevent from the formation of stretch marks.

ANTI-WRINKLES

SCIENTIFIC PUBLICATION _0738

Clinical evaluation of ALGISIUM C®'s potential for wrinkles care



ALGISIUM C® most impressive plumping activity provides deep and intermediate wrinkle minimization. ALGISIUM C® protection of the structural tissue of the skin (extracellular matrix and its components: elastin, collagen..) illustrates its prevention activity against cutaneous collapse.

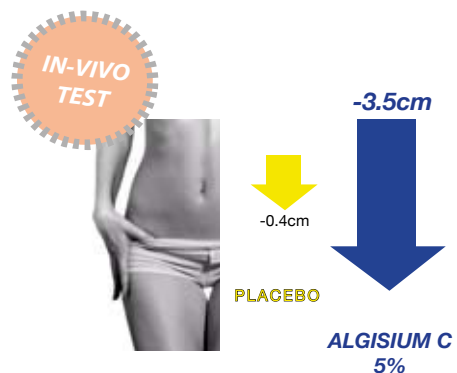


FIRMING, SLIMMING AND LIPOLYTIC ACTIVITY

SCIENTIFIC PUBLICATION _0142

Clinical evaluation of ALGISIUM C®'s potential for slimming care

ALGISIUM C® induces a centimetric loss (especially on the waist) and a spectacular improvement on cellulite appearance due to dermis restructuring (firm and elastic).



ALGISIUM C[®]

ANALYTICAL COMPOSITION

| | |
|-----------------------|----------|
| Monomethylsilanetriol | 0.3% |
| Including SILICIUM | 0.09% |
| Mannuronic acid | 0.6% |
| Preservative(s) | sq% |
| Water | sqf 100% |

TECHNICAL CHARACTERISTICS

Limpid, colorless liquid
 PH : approx 5
 Density at 20°C : approx 1.0
 Soluble in water, alcohol and glycols

PRESERVATIVE ALTERNATIVES

Different preservative systems are available in order to fit with your requirements. Among these versions, we try to develop as often as possible preservative free ingredients. Please contact us for details about the available versions.

TOLERANCE STUDY

ALGISIUM C[®] does not show any toxicity.
 Tolerance studies were undertaken on *in vitro* alternative methods (cell culture and reconstructed epidermis) and on volunteers.
 Details on the tolerance studies can be found on the product's MSDS.

FORMULATION

Use level: 4 to 6%
 Incompatibilities: concentrated calcium salts, alcohols and concentrated glycols

AVAILABILITY

5, 30, 60 kg and 1 ton.



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