

Lys'lastine™ v

Beauty Care Solutions

 **BASF**

The Chemical Company

Lys'lastine™ v

Elastin enabler

REF

A00076

DESCRIPTION

Aqueous *Anethum Graveolens* extract.

REGULATORY DATA

INCI Water, Butylene Glycol, Peucedanum Graveolens (Dill) Extract, Xanthan Gum.

Japanese cosmetic

denomination Mizu (1370), BG (100040), Inondo ekisu (559894), Kisantangamu (109058).

CAS# 7732-18-5, 107-88-0, 90028-03-8, 11138-66-2.

EINECS# 231-791-2, 203-529-7, 289-790-8, 234-394-2.

ORIGIN

Dill seed extract.

FORMULATION DATA

Cosmetic properties

- Stimulates LOXL synthesis,
- Renews elastin functionality.

Applications

- Anti-aging face care,
- Body care elasticity rebuilder.

Concentration of use

1 to 2%

Incorporation method

Add at the end of the formula at temperatures lower than 35°C.

PATENT

Cenizo V, Bouez C, Sommer P, Damour O, Gleyzal C, Andre V, Reymermier C, Perrier E.

Stimulation of the synthesis and of the activity of an isoform of lysyl oxidase-like LOXL for stimulating the formation of elastic fibers.

(Germany: 102004028302), (Korea: 100637934), (Canada: pending), (France: pending), (UK: pending), (Japan: pending), (USA: pending).

Elastin and elasticity breakthrough discoveries

(BASF in association with CNRS institute)

Lys'lastine is one of the most advanced concepts launched recently in the cosmetic industry. It relies on several major discoveries on elastin physiology and mechanics. The key element in cutaneous elasticity during aging is LOXL.

Despite the obvious relationship between elastin and skin elasticity, the structure and aging of this protein are in fact poorly known.

In contrast to other skin constituents such as collagen and glycosaminoglycans (GAGs), that decrease with age, elastin accumulates and changes appearance, as can be observed in skin elastosis.

Thanks to a joint project we have conducted with a French research institute (CNRS), we have made major discoveries on ELASTIN: STRUCTURE, FUNCTIONALITY AND AGING.

Elastin is an assembly of microfibrils and tropoelastin (or soluble elastin). The insoluble nature of the assembly is required for its functionality.

Our work, as well as medical research on pathologies involving structural defaults of elastin, has led to the discovery of the key player regulating the assembly of the two elements: LOXL.

While microfibrils and soluble elastin continue to be synthesized throughout life, LOXL dramatically decreases from the age of 18.

Lys'lastine™ v has been developed to help renew skin elasticity, through the reinduction of LOXL synthesis.

Lys'lastine™ v

the elastin enabler

patented by BASF Beauty Care Solutions

After screening 1000 extracts and molecules, we selected an extract of dill. This extract is called Lys'lastine™ v (v for «vegetal»).

We have shown that Lys'lastine™ v activates the expression of LOXL mRNA (MIMEDERM™) and the synthesis of LOXL protein (MIMESKIN™). We also showed that the increased levels of LOXL in the skin causes the assembly of microfibrils and tropoelastin, leading to improved mechanical properties of the reconstructed skin.

These results were confirmed in a clinical study of 50 women.

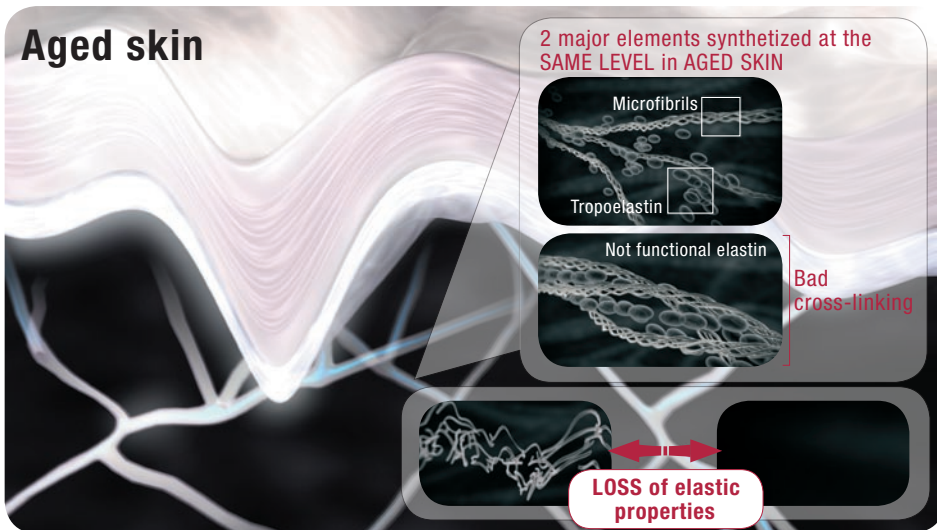
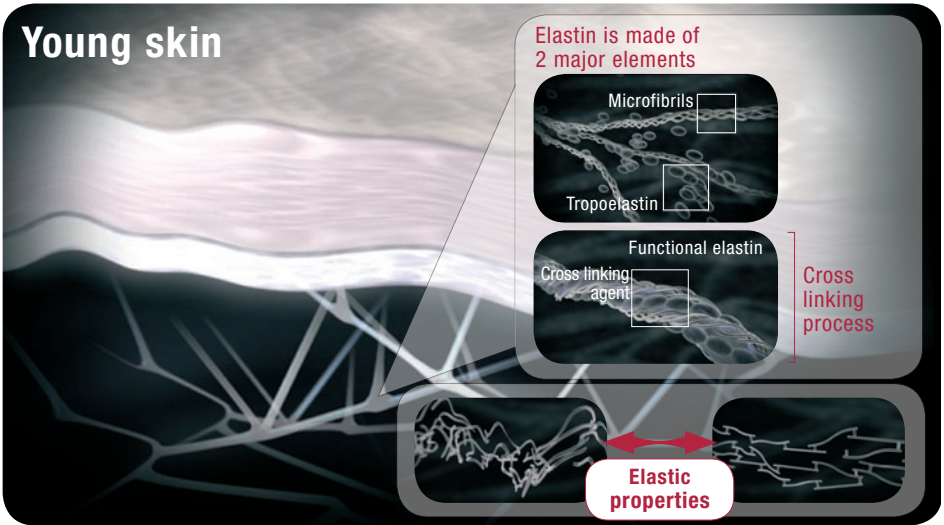
What types of new efficacies can be expected from an action that affects elastin?

Elastin is responsible for the **elasticity** of the skin and also acts like a «tent peg» in the skin, capable of placing it under tension in **3 dimensions**.

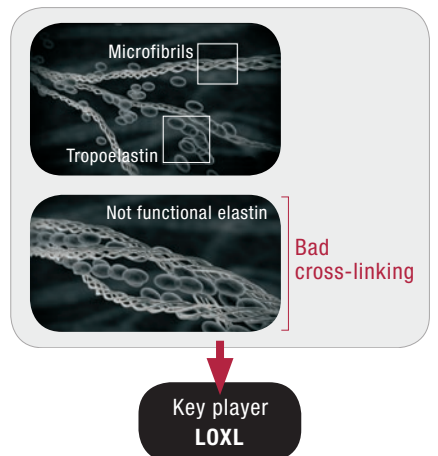
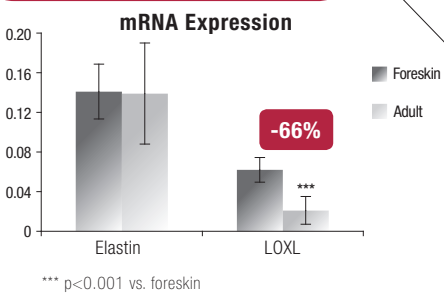
While restoration of elasticity helps the skin to become a **more resilient material without leaving marks**, the 3D function favors **redesigning face architecture**. We are not in the area of face lifting or replumping, as is the case with collagen and GAGs. We offer new types of efficacy from simple well-being to high tech face rejuvenation.

Elastin in the skin

discovery of a major player



Only **LOXL** dramatically decreases with age
 LOXL is the **missing link**



Studies carried out with CNRS

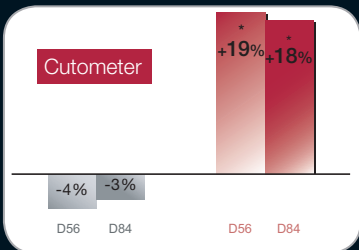
New Stories by Simply *elastic*...



Lys'lastine™ v renews skin **elasticity**

Skin reactivates its own **resilience**, like a modern textile

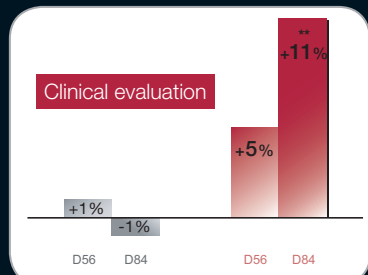
+19% elasticity-resilience



n=21 subjects per product
* statistically different from placebo (p<0.05)

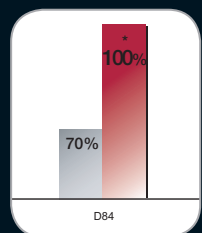
■ Placebo
■ Lys'lastine™ v

+11% elasticity



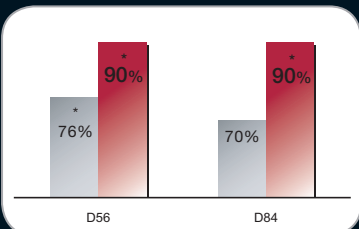
** statistically different from placebo (p<0.01)

100% women are satisfied



* significant difference in favor of the product (p<0.05)

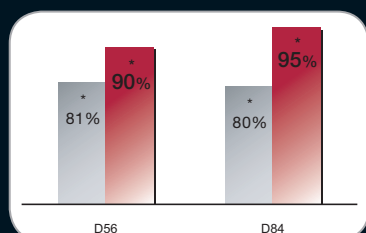
90% women find their skin texture improved



* significant difference in favor of the product (p<0.05)

Self assessment

95% women find their skin more elastic



* significant difference in favor of the product (p<0.05)

Clinical study

- Conducted on 50 women between 43 and 56 years old. A 3-month treatment, 2 applications per day.
- 25 women treated with 1% Lys'lastine™ v
- 25 women treated with the placebo
- After 56 and 84 days of treatment, biometric, clinical and self-evaluation parameters were determined.

Lys'lastine™ v

The face designer™ ...



3D stretching effect

Elastin is the only fiber capable to structure the 3D aspect of skin

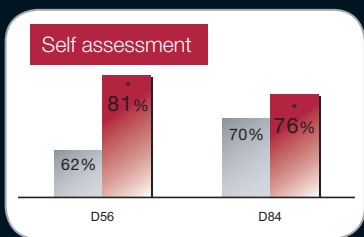
A natural result respecting natural features



Lys'lastine™ v acts like a skin care artist

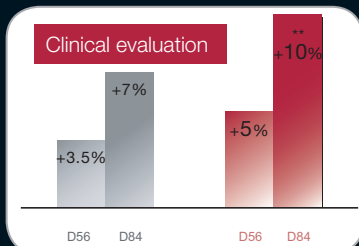
Face architecture

81% women find their facial architecture improved



* significant difference in favor of our product (p<0.05)

+10% tonicity of the jaw line

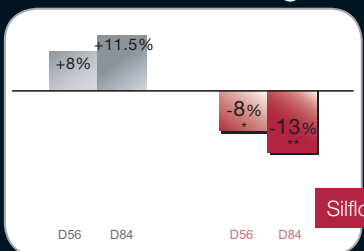


** statistically significant vs. T0 (p<0.01)

Tenses the skin

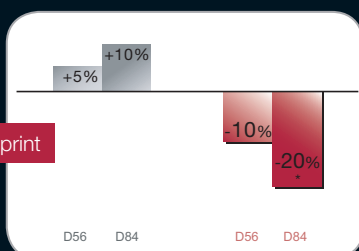
Smoothes wrinkles

-13% wrinkle length

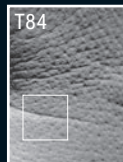
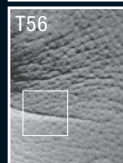
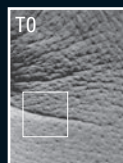


n=20 or 21 subjects per product
** statistically different from placebo (p<0.01)
* statistically different from placebo (p<0.05)

-20% wrinkled surface



n=20 or 21 subjects per product
* statistically different from placebo (p<0.05)



Silflo® imprint

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