

Uniglucan G-51

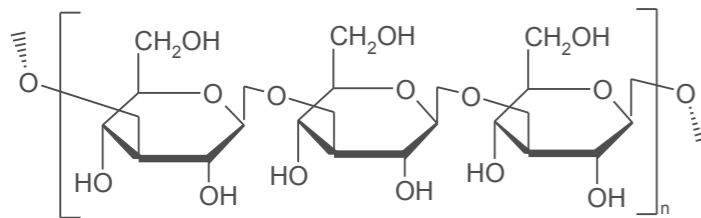
Reinforcer of
cutaneous shield

Uniglucan G-51

A multi-active β -glucan complex for an **immediate** and **long term protective effect**.

Uniglucan G-51 shields the skin against daily aggressions, by activating the immune system of the skin. It produces visible effects on:

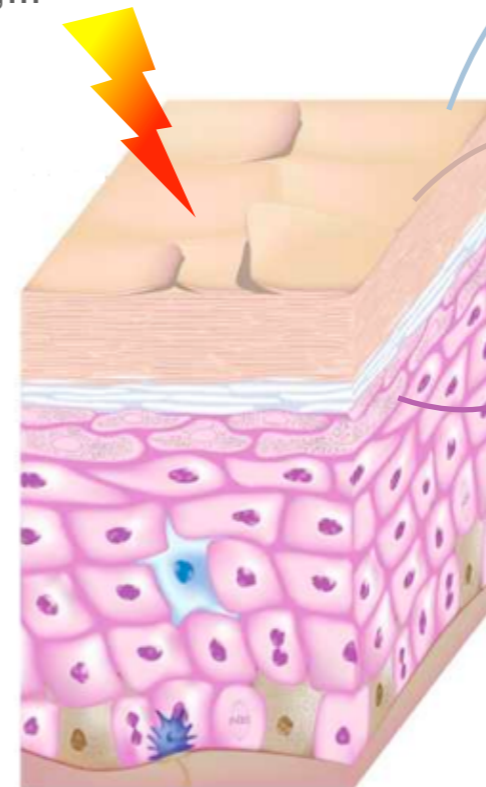
- ▶ irritation
- ▶ roughness
- ▶ elasticity
- ▶ skin hydration



Structure of β -glucan

Uniglucan G-51 is a concentrated polysaccharides substance based on purified natural yeast cell walls obtained using biotechnology.

Daily aggressions:
oxidative stress,
UV, environmental
pollution,...



Dehydration of the skin

Increase of skin roughness
▶ apparition of little cracks

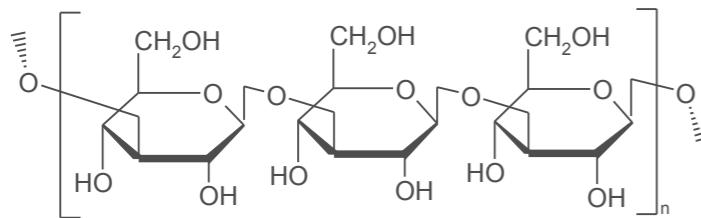
Weakening of skin immune
system
▶ risk of irritation

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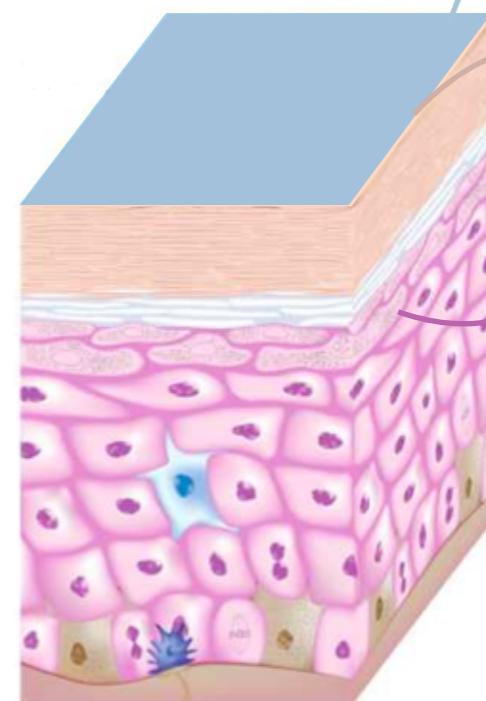
- ▶ irritation
- ▶ roughness
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Structure of β -glucan

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Daily aggressions:
oxidative stress,
UV, environmental
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Dehydration of the skin ↓
▶ high water-binding capacity

Decrease in skin roughness
▶ ~~apparition of little cracks~~

Stimulation of skin immune
system
▶ ~~risk of irritation~~

Uniglucan G-51

▶ The cutaneous shield is enhanced

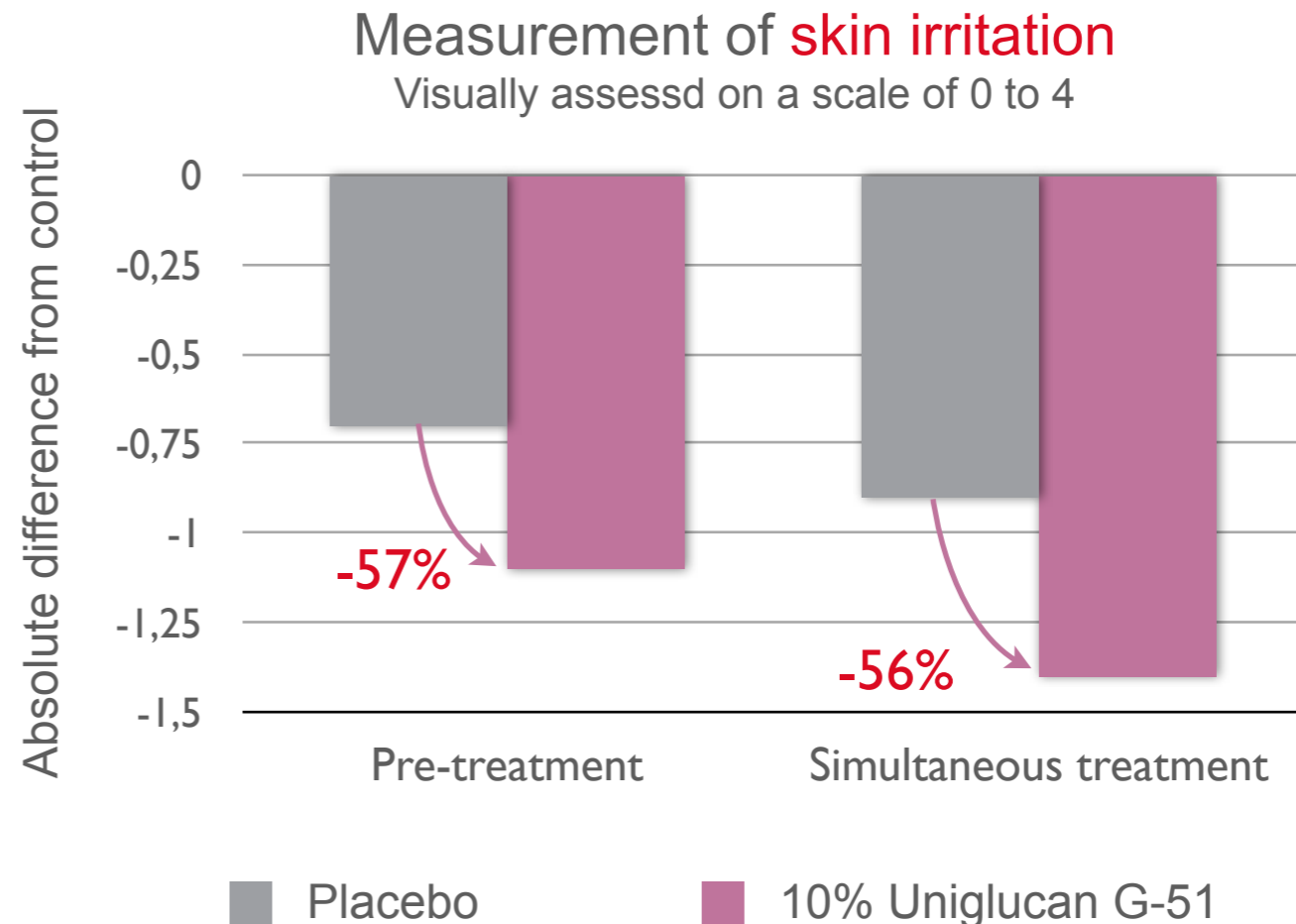
Uniglucan G-51

Protection against irritation (clinical study)

Protocol: A placebo and a cream containing 10% Uniglucan G-51 were tested for their ability to protect against irritation. Two protocols were used on each arm of 10 volunteers: a pre-treatment (application once daily for 7 days) or a simultaneous treatment with the SLS* (0,5%) induced irritation. After 24h with a patch, skin surfaces were assessed.

*SLS: Sodium Lauryl Sulfate

Result: Uniglucan G-51 **reduces skin irritation** by an average of **56.5%**, compared to placebo. It shows a protective and an irritation-inhibiting effect.

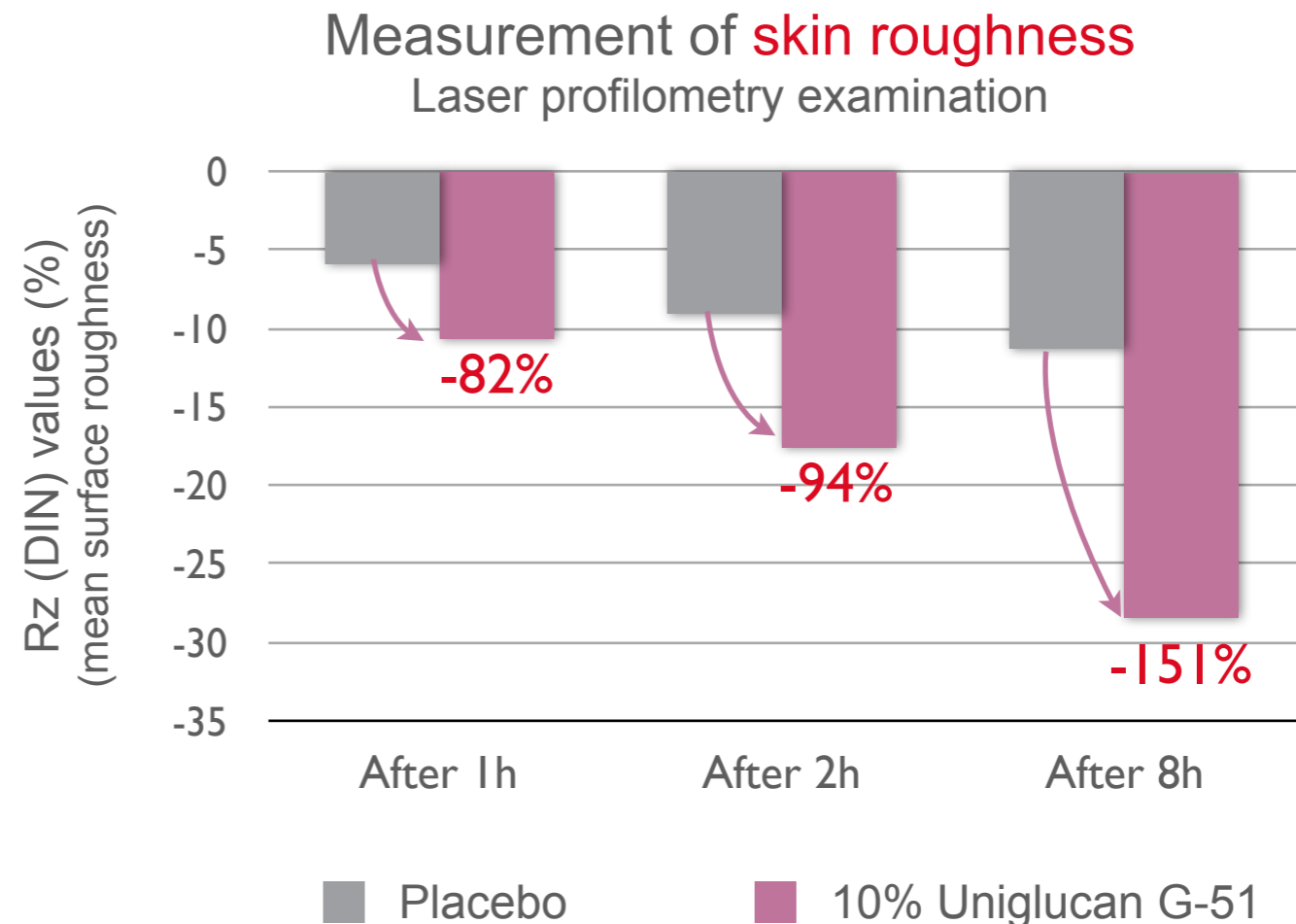


Uniglucan G-51

Reduction of skin roughness (clinical study)

Protocol: A placebo and a cream containing 10% Uniglucan G-51 were tested in a study on 10 women volunteers to evaluate skin roughness. A single application in the cheek region/lower eyelid was done. Laser profile measurements were made after 1, 2 and 8h.

Result: Uniglucan G-51 shows an immediate smoothing effect: **reduction of skin roughness up to -151% after 8h**, compared to placebo.



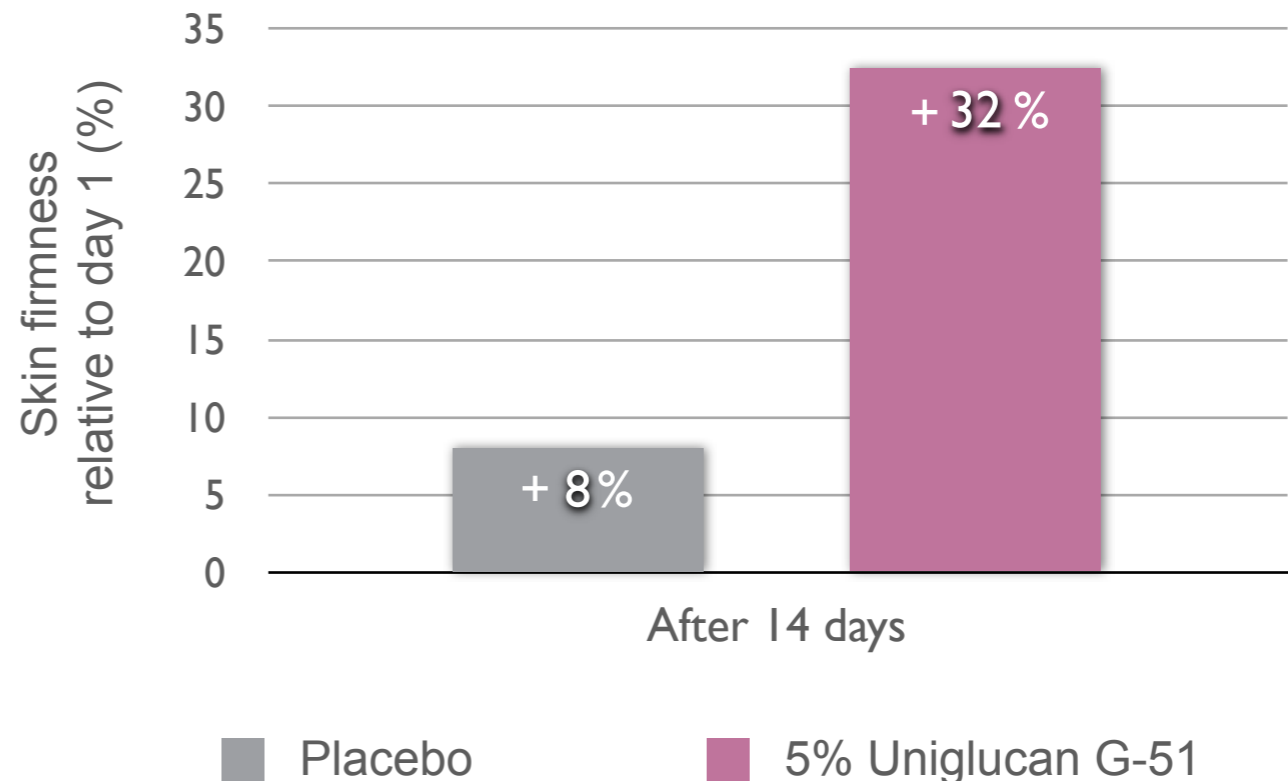
Uniglucan G-51

Long term improvement in skin elasticity (clinical study)

Protocol: A placebo and a cream containig 5% Uniglucan G-51 were tested in a study on 5 women volunteers to evaluate skin elasticity. The products were applied twice daily, for 14 days on the inner side of the forearm.

Result: Uniglucan G-51 **increases skin firmness by 32%**, after 14 days.

Measurement of **skin firmness**
Cutometer SEM 474

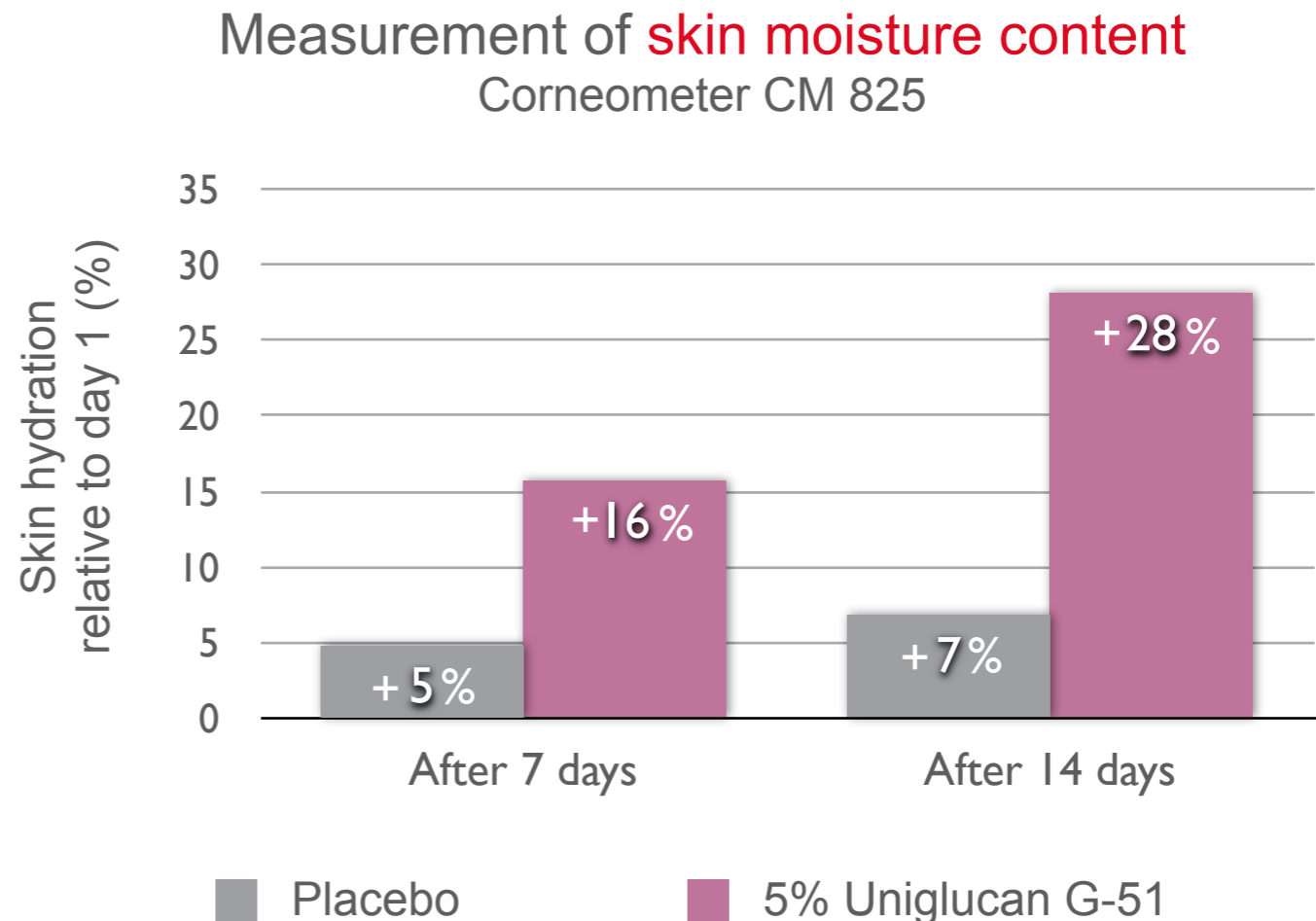


Uniglucan G-51

Long term improvement in skin hydration (clinical study)

Protocol: A placebo and a cream containig 5% Uniglucan G-51 were tested in a study on 5 women volunteers to evaluate skin moisture content. The products were applied twice daily, for 14 days on the inner side of the forearm.

Result: Uniglucan G-51 increases skin hydration by respectively **16%** and **28%**, after 7 and 14 days.



Uniglucan G-51



TECHNICAL INFORMATION

INCI:	Water, Butylene Glycol, Yeast Polysaccharides
Origin:	Biotech & Organic synthesis
Preservation:	Preservative free
Appearance:	Brown pasty fluid
Solubility:	Water-soluble
Dosage:	3% - 10%
Processing:	Can be added at the end of the formulation process under stirring or homogenizing or can be heated for a short time with the water phase of a formulation Formulate at pH between 5.0 and 8.0 and temperature below 80°C
Regulatory status:	CN, JP, KR, HK, AU, ASEAN, USA, South-Am., Mid-East, EU
Claims:	Anti-irritation, smoothing, moisturizing

SAFETY ASSESSMENT

Ocular irritation:	Skinethic ocular in vitro test - non irritant at 100%
Skin irritation:	Closed epicutan patch test - non irritant at 50%
Mutagenicity:	Ames assay - OECD 471 - non mutagenic

Thank you

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