



REFORCYL®

7 Steps to Restore Mature Skin

REFORCYL® helps regenerate the perturbed barrier of mature skin and provides nutrition and new resistance.

The plant *Gynostemma pentaphyllum* from the Far East activates the liver X receptor (LXR), a master regulator of epidermal lipid synthesis. Through the stimulation of the epidermal lipid synthesis, the skin barrier is restored from within.

The Western plant *Cistus incanus* strengthens the reduced antioxidative defence system found in mature skin. Reactive oxygen species are neutralised, thus preventing further damage to the skin barrier.

REFORCYL® shows a seven-fold efficacy against the appearance of mature skin: hydration, firmness, wrinkle depth, elasticity, smoothness, barrier strength and regeneration are all markedly improved.

SWISS EXPERTISE 

RAHN
Your partner for excellence

SCIENTIFICALLY PROVEN EFFECTS

- Activates LXR in human primary keratinocytes (*in-vitro study*)
- Activates the key enzymes of epidermal lipid synthesis (*in-vitro study*)
- Provides the glue to seal the epidermal barrier (*in-vivo study*)
- Improves skin hydration, firmness, elasticity and smoothness (*in-vivo study*)
- Visibly improves wrinkle depth in eye area (*in-vivo study*)
- Perceivably improves the condition of mature skin (controlled user test)



ACTIVE INGREDIENTS

Gynostemma pentaphyllum



Gynostemma pentaphyllum, the immortality herb, has a high gynosaponin content. Extract of this plant activates the LXR, stimulates the neosynthesis of the epidermal lipids and strengthens the skin barrier from within.

Cistus incanus



Cistus incanus, the plant of beauty, is especially rich in polyphenols. Extract of this plant neutralises reactive oxygen species (ROS) and improves the reduced antioxidative defence system found in mature skin.

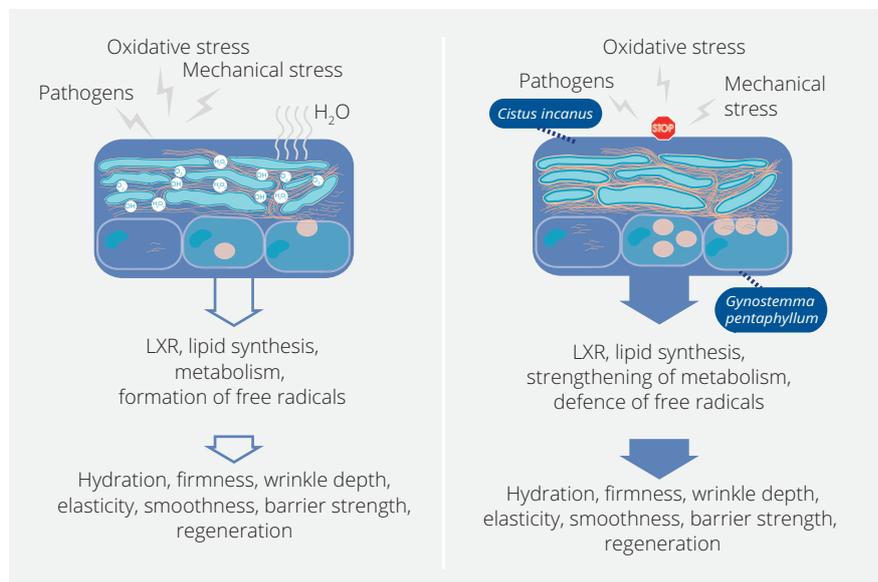
Further active ingredient:

- L-glutamine

MODE OF ACTION

Mature skin is accompanied by disruptions to the skin barrier. The epidermal lipid synthesis and the antioxidative defence system only function to a limited extent.

REFORCYL® stimulates both of these processes which leads to a visible and measurable regeneration of the skin barrier: Skin moisture, firmness, elasticity, skin smoothness, barrier strength and regeneration are sustainably improved.

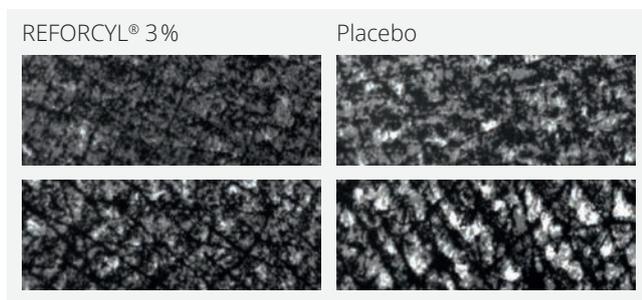


REFORCYL® IMPROVES BARRIER STRENGTH (*in-vitro* study)

Method: Corneocyte detachment (Corneofix®/Visioscan VC 98)

Implementation: Twice daily application of cream with 3% REFORCYL®/placebo on forearms; treatment period: 28 days; 10 female volunteers (Caucasian skin and mature skin typology); age 46–58 years; 1x and 2x stripping of test areas on day 0 and 28; determination of corneocyte detachment after stripping.

Result: Compared to the beginning of the study fewer corneocytes were removed upon 1x and 2x stripping when REFORCYL® was applied for 28 days. REFORCYL® thus increases the amount of skin lipids via activation of LXR and has a strengthening effect on skin barrier.



REFORCYL® SMOOTHES WRINKLES IN THE EYE AREA (*in-vivo* study)

Method: Determination of the wrinkle depth of crows feet using Primos, with the addition of digital photographs.

Implementation: Twice daily application of a gel with 3% REFORCYL®. Treatment period: 28 days; 20 test subjects of Caucasian skin type; age: 50 – 70 years; wrinkle depth measured on day 0, 14 and 28.

Result: Treatment with 3% REFORCYL® leads to a statistically significant reduction in wrinkle depth of 9% after 14 days and 14% after 28 days. The wrinkle smoothing effect of REFORCYL® can be seen in the pictures with the naked eye.



Application and Processing Information

Anti-age products for mature skin. Suitable for gels, emulsions (O/W and W/O) and serums.

REFORCYL® IMPROVES SKIN HYDRATION, FIRMNESS, ELASTICITY AND SMOOTHNESS (*in-vivo* study)

Method: Corneometer, Cutometer, Primos

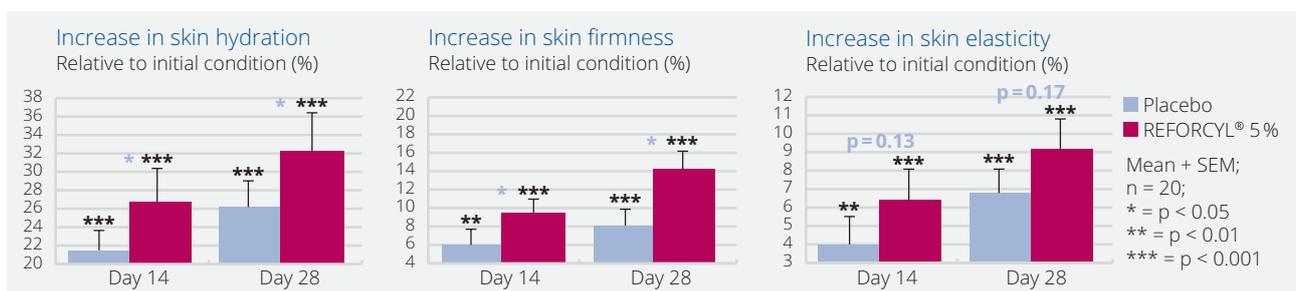
Implementation: Twice-daily application of aqueous solutions with 0% (placebo), 1%, 3% and 5% REFORCYL®. Treatment period: 28 days; 20 test subjects of Caucasian skin type; age: 50 – 70 years; measurement of skin hydration (with 1%, 3% and 5% REFORCYL®), skin roughness (with 3% REFORCYL®); elasticity and firmness (with 5% REFORCYL®) on day 0, 14 and 28.

Result: The application of 5% REFORCYL® leads to an increase in skin hydration of up to 32% after 28 days. With 5% REFORCYL®, skin firmness is improved by up to 14% after 28 days, and skin elasticity increases by up to 9%.

Not shown are the test results with lower concentrations: 1% and 3% REFORCYL® bring about an increase in skin hydration dependent on the dose. Moreover the application of 3% REFORCYL® leads to a reduction in skin roughness of up to 11% after 28 days.

Recommended Use Level: 1–5%

INCI: EU: Glycerin, Aqua, Glutamine, Decyl Glucoside, Phenethyl Alcohol, Citric Acid, Cistus Incanus Flower/Leaf/Stem Extract, Gynostemma Pentaphyllum Leaf/Stem Extract **USA:** Glycerin, Water, Glutamine, Decyl Glucoside, Phenethyl Alcohol, Citric Acid, Cistus Incanus Flower/Leaf/Stem Extract, Gynostemma Pentaphyllum Leaf/Stem Extract **Japan:** Glycerin, Onsen-Sui, Glutamine, Decyl Glucoside, Phenethyl Alcohol, Citric Acid, Cistus Incanus Flower/Leaf/Stem Extract, Gynostemma Pentaphyllum Leaf/Stem Extract



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