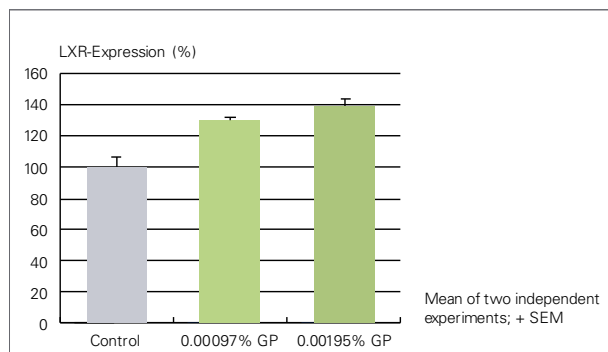


Efficacy studies

REFORCYL® activates LXR (in-vitro study)



Measurement parameters: Determination of the expression of LXR using real-time (RT) PCR analysis.

Method: Cultivation of human keratinocytes in a sub-toxically dosed 0.00097% Gynostemma pentaphyllum extract (~ 0.05% REFORCYL®) for two days, followed by isolation of the RNA and determination of the expression of the Liver X Receptor (LXR).

Result: Treatment with Gynostemma pentaphyllum extract leads to an increase in LXR expression of 30% or 39% dependent on the dose, when compared to the untreated control. REFORCYL® efficiently stimulates the formation of the LXR and has a demonstrably positive effect on epidermal lipid synthesis.

REFORCYL® improves skin hydration, firmness, elasticity and smoothness (in-vivo study)

Measurement parameters: Corneometer (moisture), Cutometer (firmness, elasticity), Primos (skin roughness).

Method: Twice-daily applications 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.

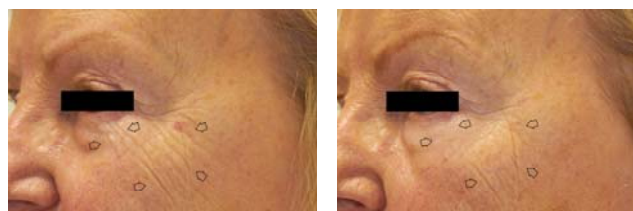
Result: The application of 5% REFORCYL® brings about an increase in skin hydration of up to 32% after 28 days. With 5% REFORCYL®, skin firmness is improved by up to 14% after 28 days, and skin elasticity increases by up to 9%. Not shown are the test results with lower concentrations: 1% and 3% REFORCYL® 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.

REFORCYL® smoothes wrinkles in the eye area (in-vivo study)

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

Method: 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.



Before application

After 28 days

Concentration for use

1 - 5%

Areas of application

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

INCI

EU: Glycerin, Aqua, Glutamine, Decyl Glucoside, Phenethyl Alcohol, Cistus Incanus Flower/Leaf/Stem Extract, Gynostemma Pentaphyllum Leaf/Stem Extract

USA/Japan: Glycerin, Water, Glutamine, Decyl Glucoside, Phenethyl Alcohol, Cistus Incanus Flower/Leaf/Stem Extract, Gynostemma Pentaphyllum Leaf/Stem Extract

Further information

Natural Cosmetic: Ecocert: listed

Preservatives: None

Animal experiments: Not tested on animals, no ingredients of animal origin

Toxicology: Not toxic for humans or the environment

Safety: GM-free, BSE-free, CMR-free, free from pesticides, free from mineral oils, free from heavy metals

