

ADEKA

Add Goodness

RETINATUREL &
RETINAL O⁵
WELL-AGING - ACTIVE



COSMOS
APPROVED



ADEKA – WHO WE ARE

ADEKA Corporation is a Japanese chemical company with more than a century of experience in the cosmetics and detergents market, having nowadays more than 12 offices, 4 R&D and 15 production sites worldwide.

ADEKA is a global company with polymer additives business organizations in Japan, Korea, Taiwan, Thailand, Singapore, China, India, USA and Europe. With global R&D centers, responsive sales and logistics organizations and a worldwide distribution network, ADEKA offers a broad portfolio of products to customers worldwide.

ADEKA has been present in the surfactants market in Europe for more than 20 years now. In 1999, ADEKA centralized their European sales activities in a new head office, ADEKA Europe GmbH, in Düsseldorf, Germany.

ADEKA has a dedicated Research & Development group equipped with latest technology and modern facilities for testing and evaluation of additives performances, which help to provide innovative solutions to the market.

ADEKA

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OUR DISTRIBUTORS

As a global chemical manufacturing company, ADEKA has established an effective global distribution network, utilizing qualified distributors and serving all targeted markets around the world. The company is fully dedicated to serving our small customers, and the distribution, strategy is structured by geographic region.

RETINAL O⁵

INCI: GLYCERIN, RETINAL, XANTHOPHYLLS

RETINAL O⁵ combines the safe protective activity of Halorubin with anti-aging benefits of Retinaturel. The unique combination protects against blue light and provide anti photo ageing activity. It is a strong booster of cell protection while it also boosts the hydration of the skin.

BENEFITS

- ✓ Safe protective activity
- ✓ Anti-aging benefits
- ✓ Boost hydration of skin
- ✓ Cell protective booster
- ✓ Protects against blue light
- ✓ Provide anti photo ageing activity

FEATURES

- ✓ Biotechnology production
- ✓ 100% Natural, Eco-friendly & non-GMO
- ✓ Sustainable process
- ✓ Suitable for vegans
- ✓ Manufactured in Germany



RETINATUREL

INCI: GLYCERIN, RETINAL

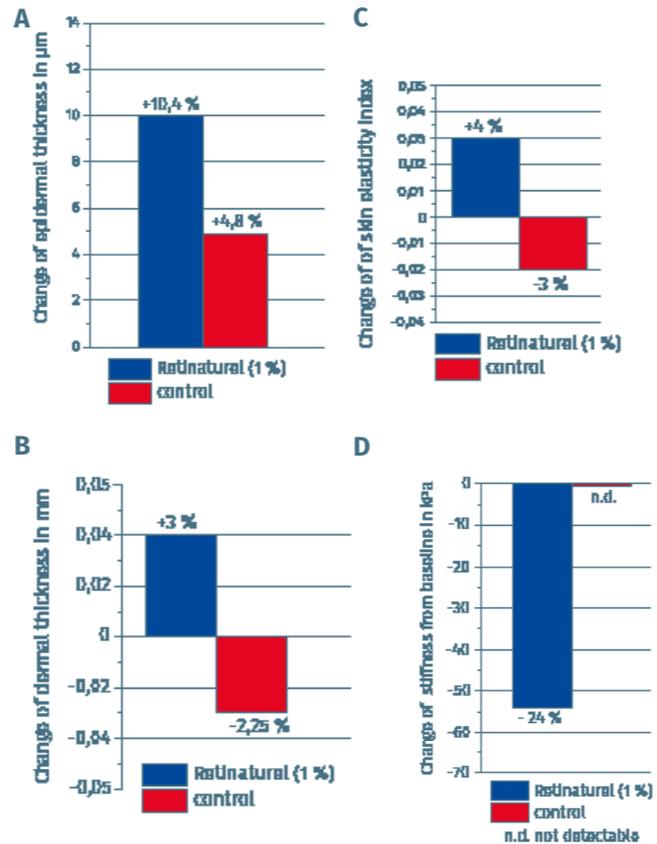
RETINATUREL contains natural Retinal produced in the halophilic microorganism Halobacterium salinarum. Retinal is the direct precursor of retinoic acid and has been shown to exert anti-photoageing activity with much lesser side effects known from other retinoids. RETINATUREL is 100% natural and made by a biofermentation process. China & REACH conform.

BENEFITS

- ✓ Reduce occurrence of acne
- ✓ Improve signs of vascularization
- ✓ Reduce wrinkles and fine lines
- ✓ Increased skin elasticity and cell turnover
- ✓ Protecting against free radical damage
- ✓ Alleviate skin roughness

SKIN AGING-PHYSICAL PROPERTIES

The natural precursor of retinoic acid, i.e. retinal, has been proven to exert retinoid activities.



METHOD

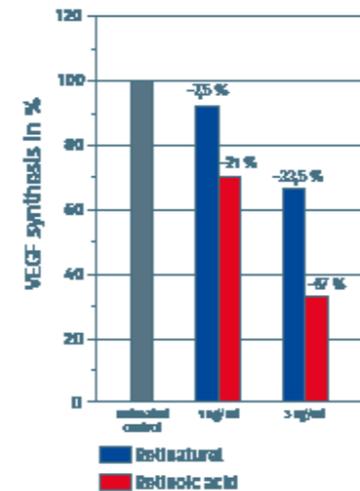
In a 1-year study, 21 patients applied retinatural cream 1% on the face, while another group of 19 volunteers were only treated with an emollient (control group). Epidermal and dermal thicknesses, stiffness and elasticity were measured on the forehead.

RESULTS

RETINATUREL treatment induced a significant increase in epidermal thickness (A) of the forehead area, as well as dermal thickness (B). Similarly, retinal treatment tended to increase cutaneous elasticity (C) and reduce cutaneous stiffness (D).

TREATMENT OF ROSACEA (IN VITRO)

Retinoids may modulate the vascular endothelial growth factor in skin and this may be related to an effect on Rosacea.



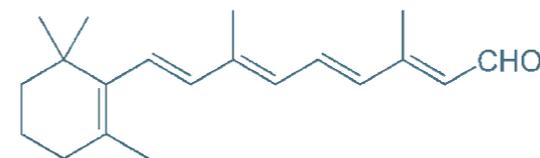
METHOD

The effects of different concentrations of retinoids (retinal and retinoic acid) on VEGF production by cultured human skin keratinocytes were determined. Expression of VEGF was analyzed by enzyme-linked immunosorbent assay (ELISA).

RESULTS

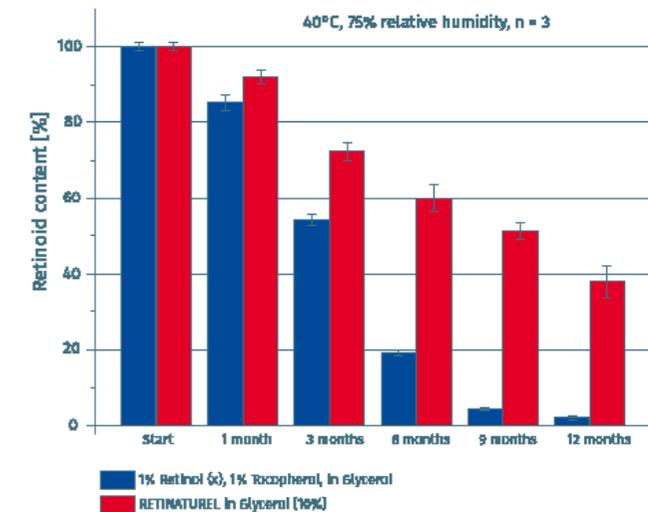
The decrease in VEGF expression by keratinocytes on contact with retinoids may prevent skin neoangiogenesis in certain skin diseases like rosacea.

MOLECULAR STRUCTURE



STABILITY OF RETINATUREL

RETINATUREL is stable for at least 12 months in cosmetic formulations that have been manufactured under standard conditions and stored in aluminum tubes at 40°C. The following examples contain 10% of RETINATUREL in Glycerin. The resulting concentration in formulation is therefore 1%. After 12 months, 38% of RETINATUREL are still remaining.



Stability of RETINATUREL (Retinal) in formulation (O/W, 1% Retinatural) during storage at 40°C, 75% relative humidity, n=3, over 12 months.