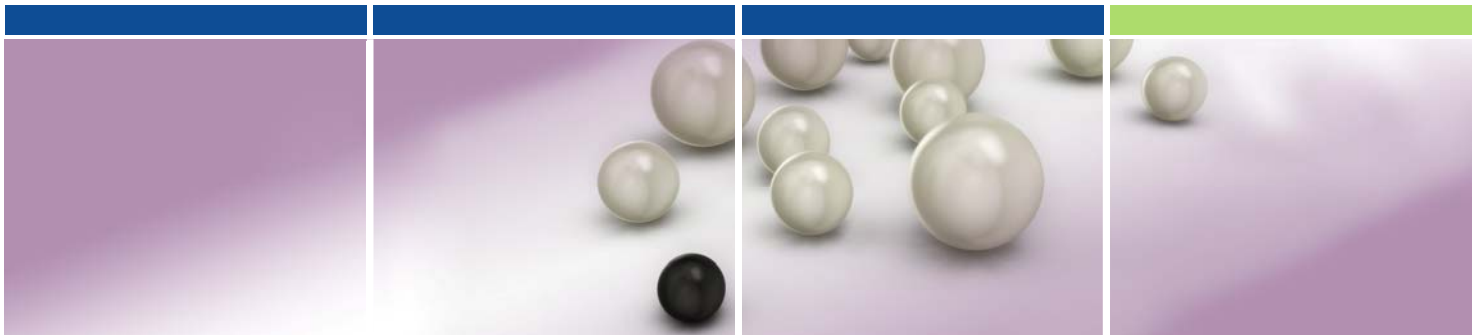




ILLUMISCIN®

Illuminates skin by eliminating age spots



RAHN | Cosmetics

Your partner for excellence

ILLUMISCIN®



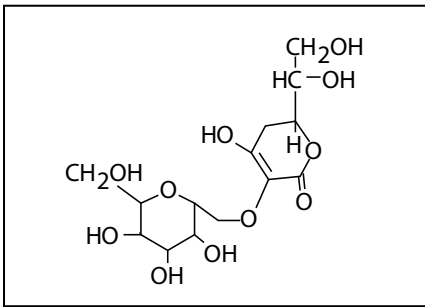
ILLUMISCIN® is effective against age spots and provides illuminated, even-toned skin. A balanced composition of Oleuropein, stabilised Vitamin C and Zinc PCA comprehensively combats the two pigments responsible for the occurrence of age spots, Melanin and Lipofuscin.

The active ingredient thus prevents the formation of age spots in a unique way. In addition it also successfully reduces the size of existing age spots and diminishes their contours. The skin tone is evened out, and the skin looks radiant again. The application and efficacy of ILLUMISCIN® is patent pending.

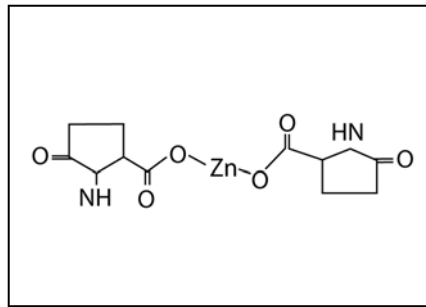
Confirmed efficacy

- Sustained reduction of Lipofuscin formation (*in-vitro* study)
- Reduction of total area of age spots by 14.2% after only 2 weeks and 21.2% after 3 months (*in-vivo*-study)
- Reduction of contour sharpness of age spots by 13.5% after 3 months (*in-vivo* study)

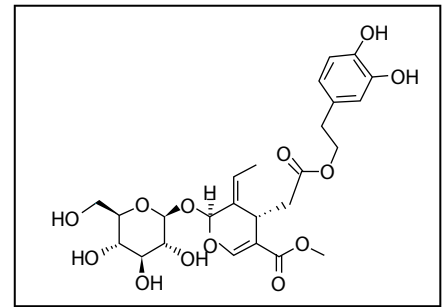
Active ingredients



Vitamin C in a stabilised glucosidic form prevents the formation of melanin. It inhibits Tyrosinase, the key enzyme in melanogenesis, at an early stage.



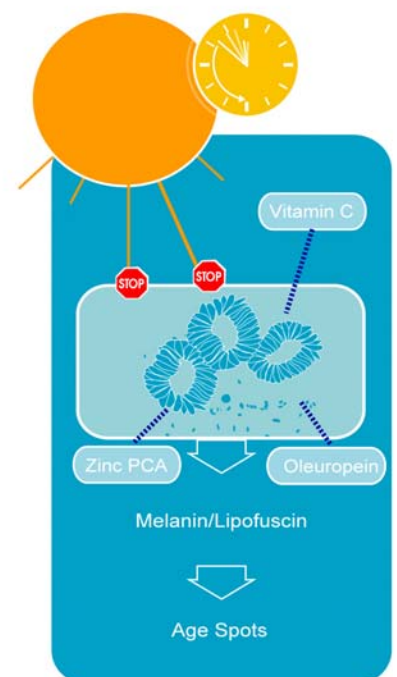
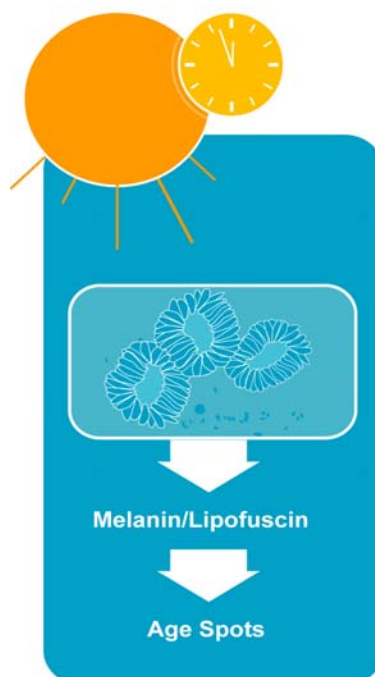
Zinc PCA, the zinc salt of pyrrolidonic carboxylic acid, activates the Vitamin C transporter. Ascorbyl glucoside can be taken up more efficiently by the skin cells and can exhibit a better inhibitory effect on melanogenesis.



Oleuropein from Olive leaves prevents the formation of the ageing pigment Lipofuscin in the skin cells and protects against the development of age spots.

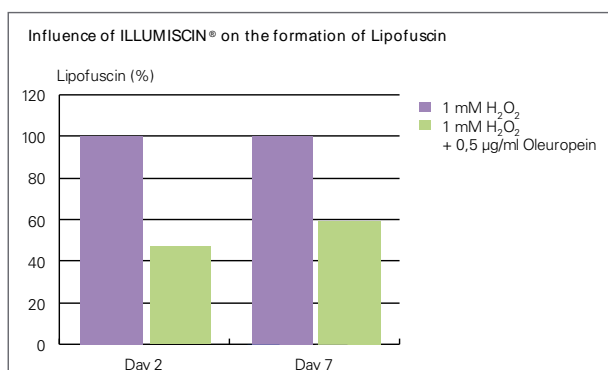
Mode of operation

Age and sun are the main factors initiating the formation of age spots. Associated with this is the development of the sun-induced pigment Melanin and the age-related waste pigment Lipofuscin. ILLUMISCIN® prevents the formation of both pigments and is thus highly effective against age spots.



Efficacy studies

Influence of ILLUMISCIN® on the formation of Lipofuscin – *in-vitro* study

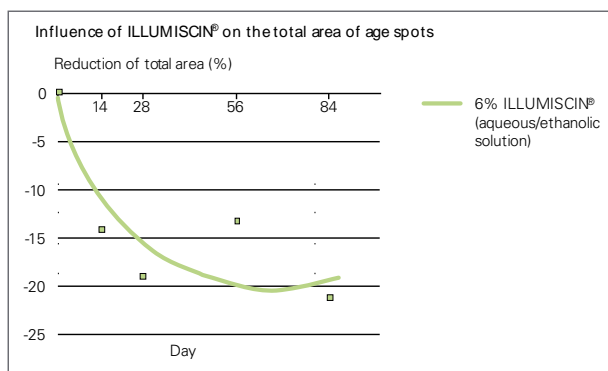


Measurement parameters: Determination of Lipofuscin by means of autofluorescence.

Method: Cultivation of human keratinocytes and incubation with 0.5 µg/ml Oleuropein (0.0001% ILLUMISCIN®), Control group not treated with active ingredient. Subsequent generation of artificial cell ageing by means of treatment with 1mM H₂O₂. Fluorometric determination of Lipofuscin content.

Result: ILLUMISCIN® successfully prevents the formation of Lipofuscin. After 2 days, the Lipofuscin content is 53% lower compared to stressed, untreated cells. Even after 7 days the Lipofuscin concentration is still reduced by 41%.

Influence of ILLUMISCIN® on the total area of age spots – *in-vivo* study

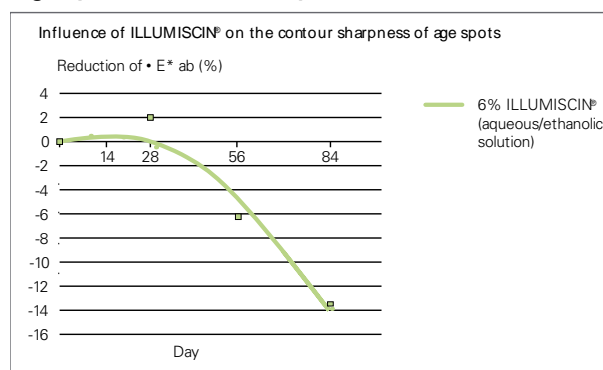


Measurement parameters: Determination of the area of age spots by means of special software

Method: Twice-daily application of an aqueous solution of 6% ILLUMISCIN®, treatment period: 3 months, 20 test subjects of Caucasian skin type, age: 50 – 70 years, determination of the total area [pixels²] using the grey levels on high resolution digital images on Day 0, 14, 28, 56 and 84.

Result: Already after 14 days, the total area of the age spots is reduced by 14.2%. When applied over a period of 3 months, the age spots reduce in size by 21.2%. ILLUMISCIN® thus leads to a fast and effective reduction in age spots.

Influence of ILLUMISCIN® on the contour sharpness of age spots – *in-vivo* study



Measurement parameters: Determining the sharpness of the contours of age spots by means of special software.

Method: Twice-daily application of an aqueous solution of 6% ILLUMISCIN®, treatment period: 3 months, 20 test subjects of Caucasian skin type, age: 50 – 70 years, determination of the sharpness of the contours of age spots ΔE*ab (difference in colour between the age spot and the surrounding skin) using the grey shades in high resolution digital images on Day 0, 14, 28, 56 and 84.

Result: The use of ILLUMISCIN® leads to a constant reduction in the contour sharpness starting from a treatment period of 4 weeks. This is reduced by 13.5% after 84 days. The contours of the age spots blend with their neighbouring skin. Treatment with ILLUMISCIN® successfully leads to a more even skin tone.

Concentration for use

3–7%

Areas of application

Age spot reducing care for face and body. Can be used in gels, emulsions, serums.

INCI

EU: Glycerin, Aqua, Olea Europaea Leaf Extract, Ascorbyl Glucoside, Zinc PCA

USA/Japan: Glycerin, Water, Olea Europaea (Olive) Leaf Extract, Ascorbyl Glucoside, Zinc PCA

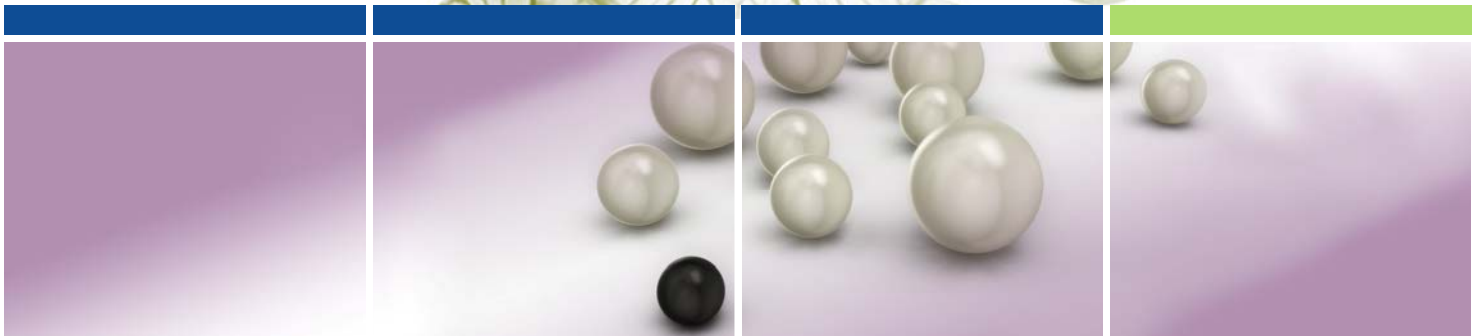
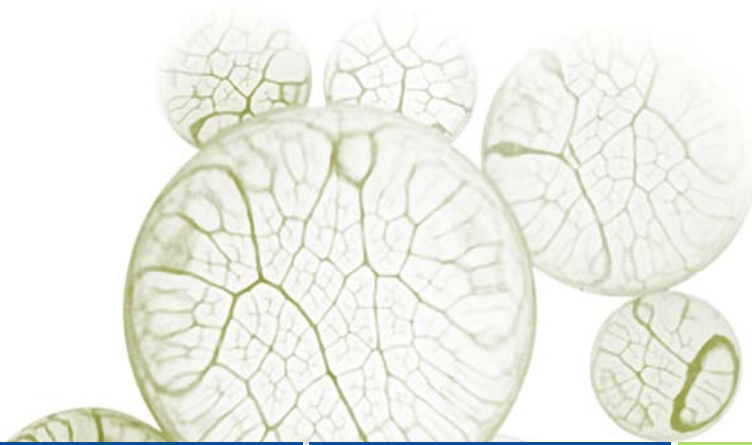
Further information

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



RAHN AG
Dörflistrasse 120
CH-8050 Zürich
Tel. +41 44 315 42 00
Fax +41 44 315 42 45

RAHN GmbH
Hahnstrasse 70
DE-60528 Frankfurt am Main
Tel. 0800 1 816 015
Fax 0800 1 816 016

RAHN (UK) Ltd.
75 Park Road
GB-Peterborough PE1 2TN
Tel. 0800 0 323 743
Fax 0800 0 323 744

RAHN USA Corp.
1005 North Commons Drive
Aurora, Illinois 60504, USA
Tel. +1 630 851 42 20
Fax +1 630 851 48 63

Cosmetics@rahn-group.com
www.rahn-group.com

Disclaimer

Utilisation of this document or parts thereof as well as product names for commercial or industrial applications is subject to explicit written approval by RAHN AG. This information is based on our own experience to date and we believe it to be reliable. It is intended only as a guide to use at your discretion and risk. We cannot guarantee favourable results and assume no liability in connection with its use, or the use of the methods or products described. None of this information is to be taken as a license to operate under, or a recommendation to infringe patents.

Version: 02/2010

RAHN | Cosmetics

Your partner for excellence