



SPOTLESS

ZERO

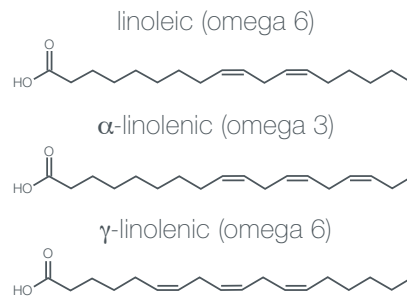
Activoil™ Spotless ZRO
Peony White™

The concept

Ribes nigrum
(Blackcurrant)



- Extraction of seed oil
- 6-3-6 fatty acid composition



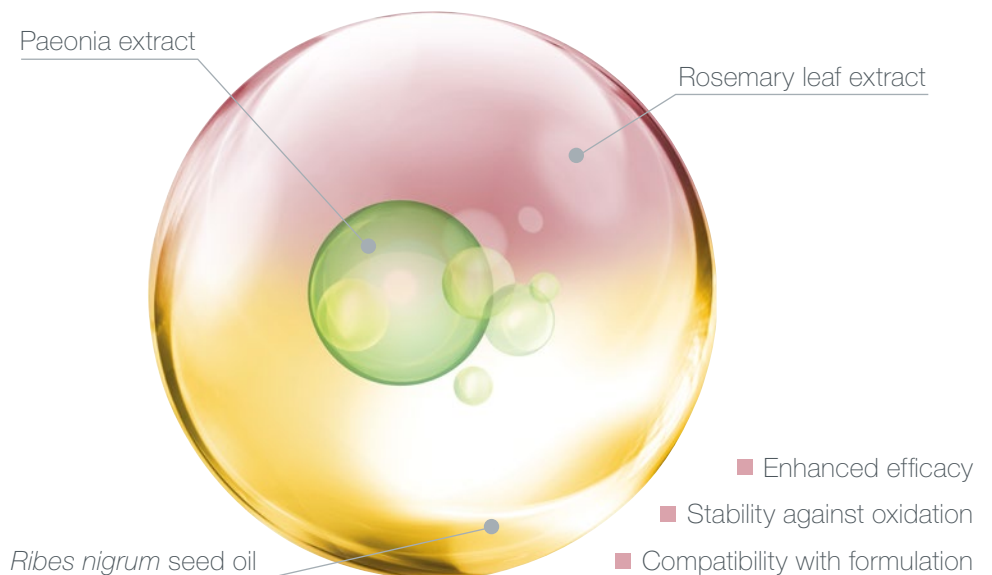
- **Biological actions**
 - Inhibition of melanogenesis
 - ↓ tyrosinase activity
 - ↑ degradation of tyrosinase

Paeonia suffruticosa
(Peony flower)

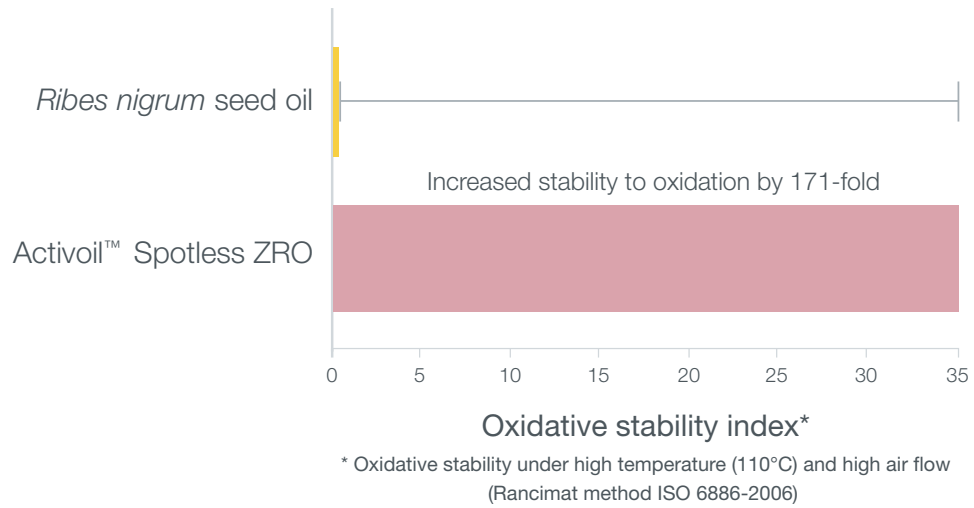


- Used in Asian Traditional Medicines
- Root bark extraction
- Enriched in Paeonol
- **Biological actions**
 - Anti-inflammatory
 - Inhibition of lipid peroxidation
 - Inhibition of melanogenesis
 - ↓ tyrosinase activity
 - ↓ tyrosinase synthesis
 - ↓ melanin transfer

Activoil™ Spotless
ZRO



Oxidative stability of Activoil™ Spotless ZRO



- In comparison with *Ribes nigrum* (blackcurrant) seed oil, **Activoil™ Spotless ZRO** displays an oxidative stability of more than 170-fold when exposed to extreme oxidative conditions.



Age spots

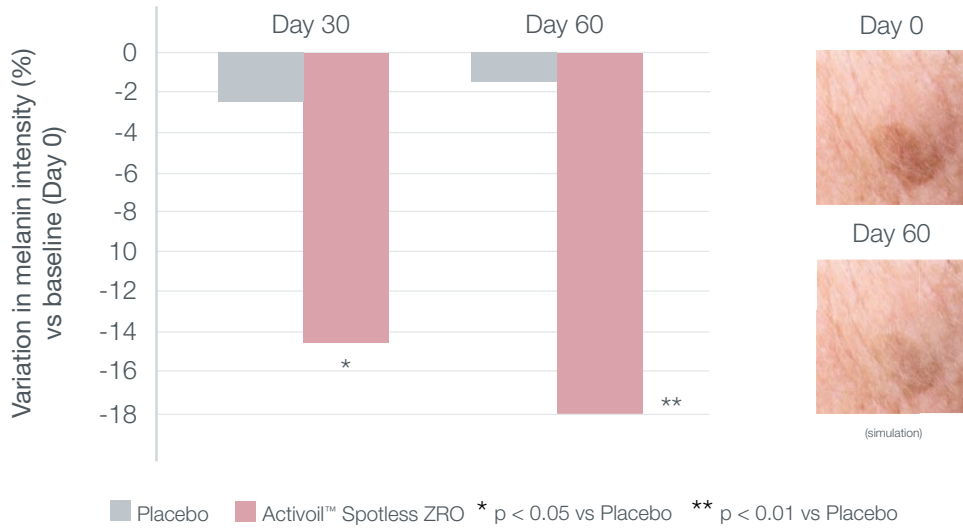
- Number and color intensity increase with age
- Their presence is related to UV exposure; not to aging
- Can be present on face, neck and upper chest areas

Possible causes

- Hyperpigmentation due to melanin accumulation
- Molecular pathways involved
 - Increase in melanocytes
 - Increase in melanin synthesis
 - Impaired melanin degradation
 - Microinflammation
 - Accumulation of lipofuscin "age-pigment"

Melanin Color Intensity of Age Spots

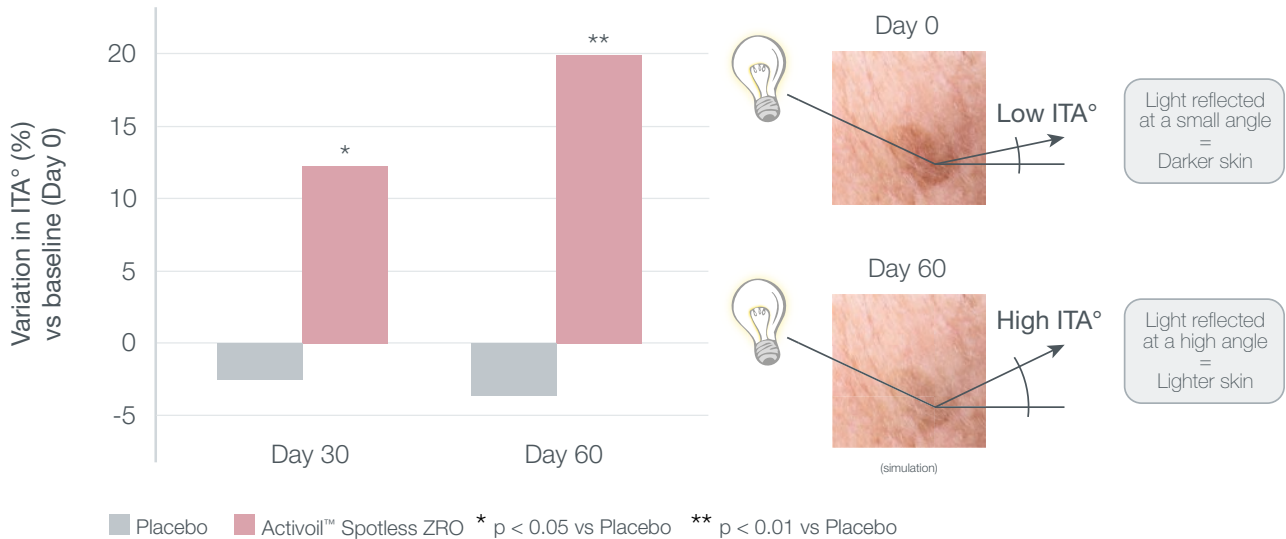
Mexameter® MX 18 – age spot melanin intensity



➔ Significant reduction in age spot melanin intensity for more than 86% of subjects

Individual Typology Angle (ITA°) – Color intensity

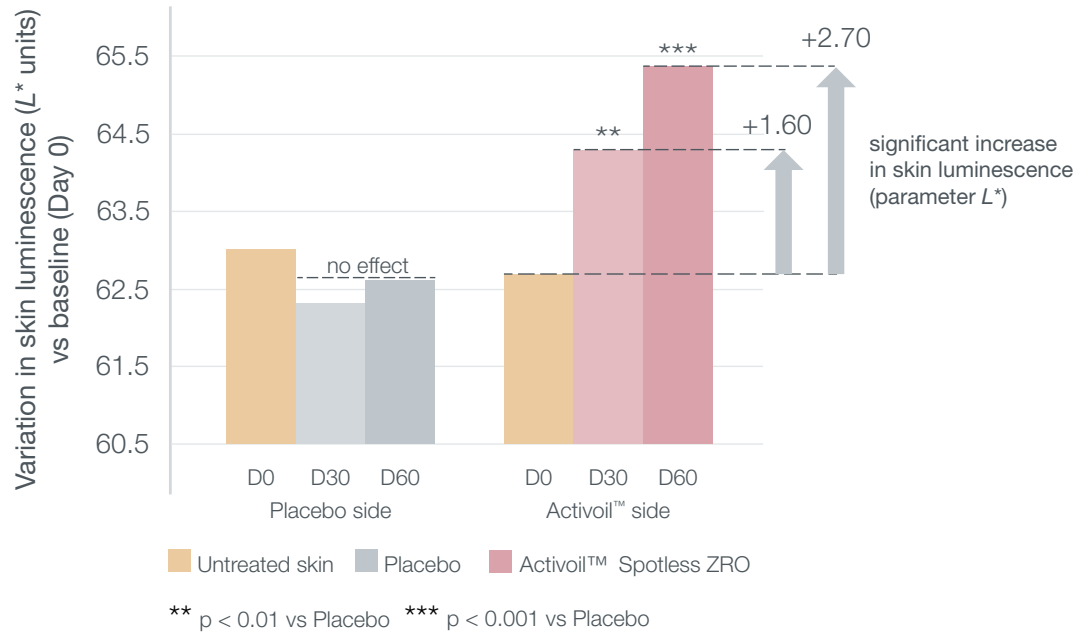
Individual typology angle – age spot global color intensity



➔ Significant reduction in age spot global color intensity

Overall Skin Luminescence

Spectrophotometer® CM-700D – face skin luminescence (L^*)



➔ Significant increase in skin luminescence for more than 93% of subjects



Increase in 1.60 L^* units

Youth gain \approx 10 years

Increase in 2.70 L^* units

Youth gain \approx 20 years

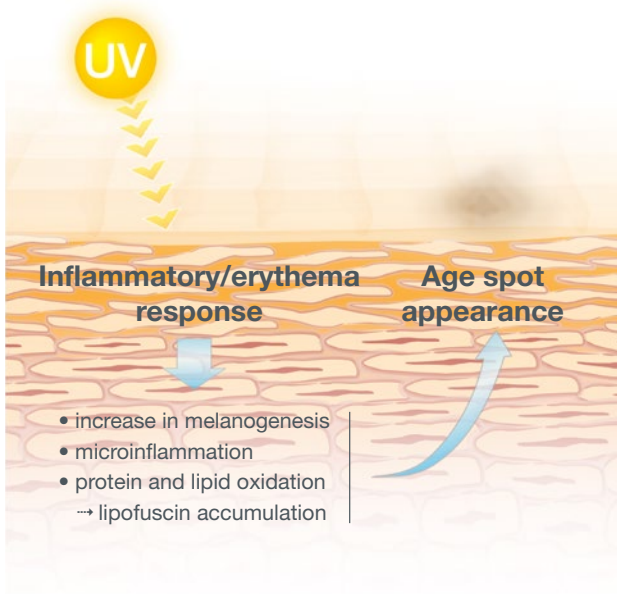
Skin luminescence expressed as L^* progressively decreases as we age. In fact, we lose an average of 1.3 L^* unit for every decade² especially between 20 and 60 years of age. Therefore, a gain in 1.60 and 2.70 L^* units could be considered as a "youth gain" of approximately 10 years and 20 years, respectively, in terms of skin luminescence and brightness.

Reduction of UV-Induced Erythema

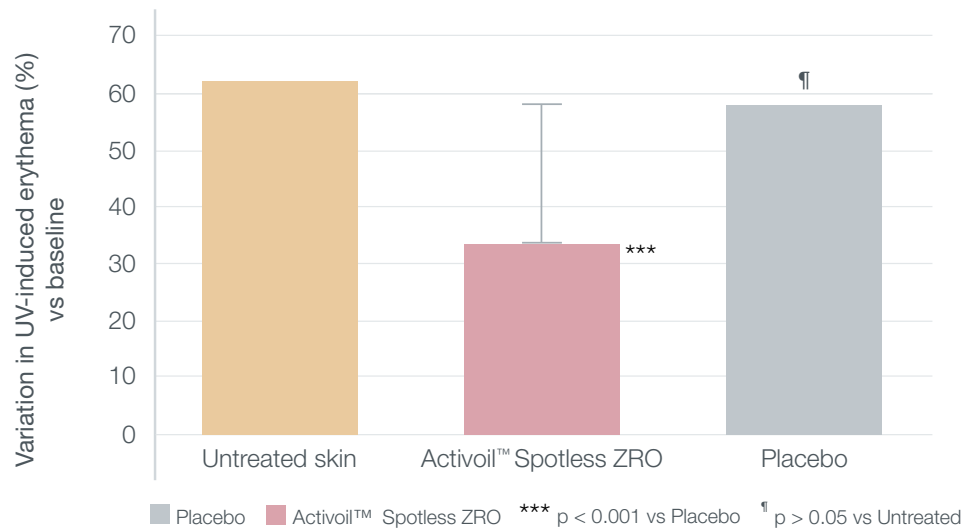
Mexameter® MX 18 – UV-induced skin redness

- Age spots are primarily caused by an excessive exposure to UV
- Microinflammation is one possible cause for the appearance of age spots

➔ Reducing UV-induced inflammation could prevent the formation of new age spots



Clinical Protocol



➔ Significant reduction in UV-induced erythema

Blackcurrant seed oil and Paeonol

Ribes nigrum (Blackcurrant) seed oil has been selected for its content in biologically active fatty acids namely linoleic, alpha-linolenic and gamma-linolenic forming an Omega 6-3-6 combination. Those fatty acids, especially linoleic, are known to inhibit melanogenesis mainly at the tyrosinase level. Known as the “King of flowers” and “Plant of healing”, *Paeonia suffruticosa* produces magnificent white flowers “Peony” and is used in a variety of Asian Traditional Medicines. A lipophilic fraction enriched in paeonol was obtained from Paeonia root bark. Paeonol is known to have antiinflammatory, antioxidant and anti-melanogenic actions. **Activoil™ Spotless ZRO** represents an ideal stabilized complex of lipophilic ingredients to reduce the appearance of age spots and increase skin luminescence and brightness.

Clinical actions

- Significantly improves skin luminescence
- Significantly reduces age spot pigmentation and color
- Prevents UV-induced erythema
- Could prevent resurgence of age spots

Technical information

- INCI: Ribes Nigrum (Black Currant) Seed Oil, Octyldodecanol, Octyldodecyl Oleate, Octyldodecyl Stearoyl Stearate, Paeonia Suffruticosa Root extract, Rosmarinus Officinalis (Rosemary) Leaf Extract
- Oil soluble
- Stabilized against oxidation
- Recommended use level: 1-2%
- Ideal for:
 - Age spots
 - Homogenizing skin tone
 - Improving skin luminescence (L^*)
 - Gaining 10-20 years in skin luminescence
 - All anti-aging formulations
 - Preventing UV-induced skin erythema

Background

Efficacy

Formulation

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