



Special
chemicals

SCH Actives™ Antiox C

Actives for the skin



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01

Introduction



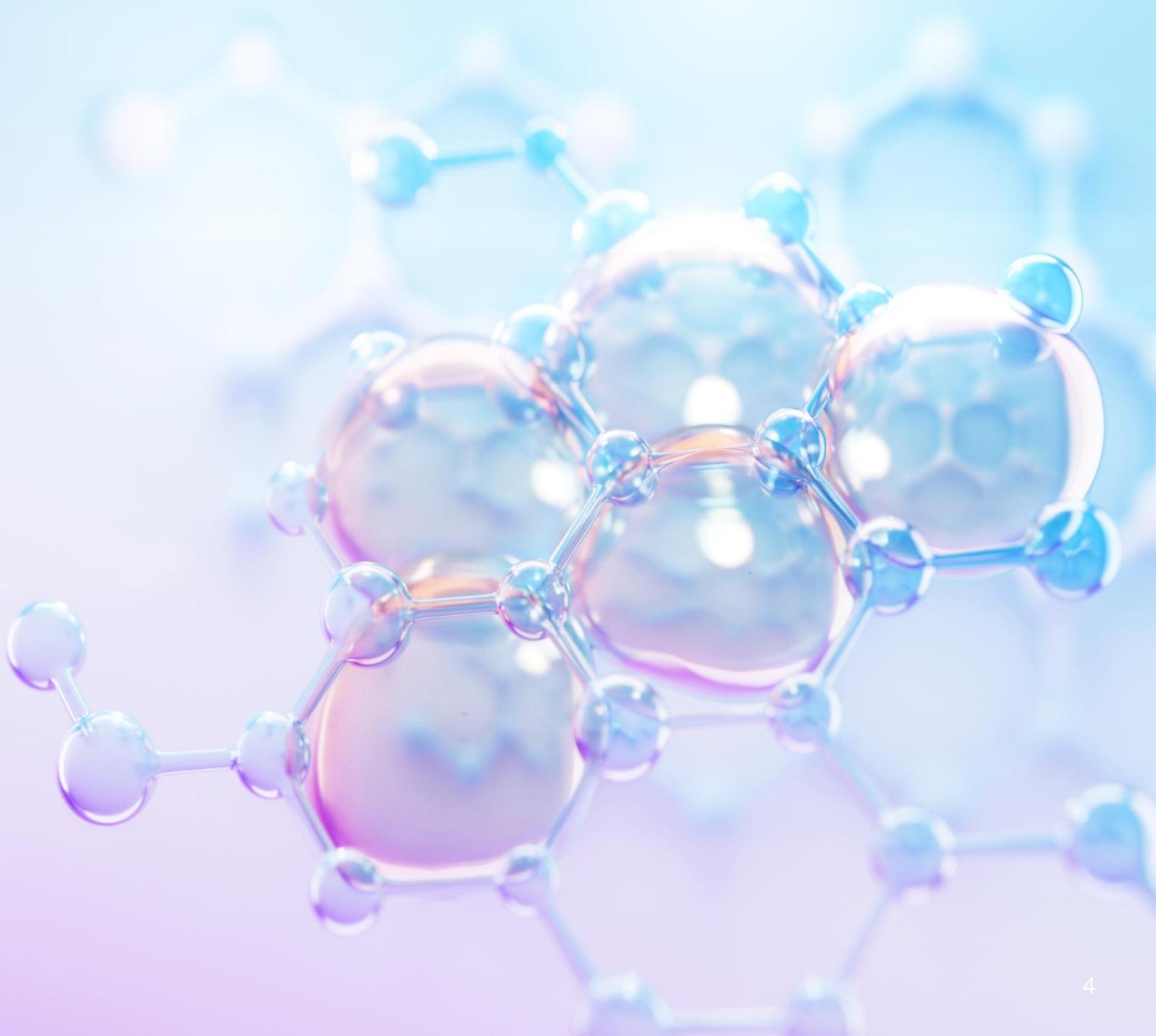
01

Introduction

SCH Actives™ Antiox C is a unique multi-oxidant that conjugates gold with Ferulic acid and Ascorbic acid (vit C).

Main activities

- Antioxidant
- Antiaging
- Antipollution
- Skin brightening



01

Composition

INGREDIENT

%

FUNCTION

Aqua	Up to 100	Solvent
Xanthan gum	0,4 – 0,6	Thickening agent
Gold	0,025 – 0,035	Active
Ascorbic acid	0,015 – 0,025	Active
Ferulic acid	0,015 – 0,025	Active
Propanediol	4 - 6	Preservative
1,2-hexanediol	0,8 – 1,2	Preservative
Caprylyl glycol	0,8 – 1,2	Preservative



Gold particles act as a carrier for the active ingredients



Deep antioxidant and antiaging activity





02

Ingredients



02 Ingredients

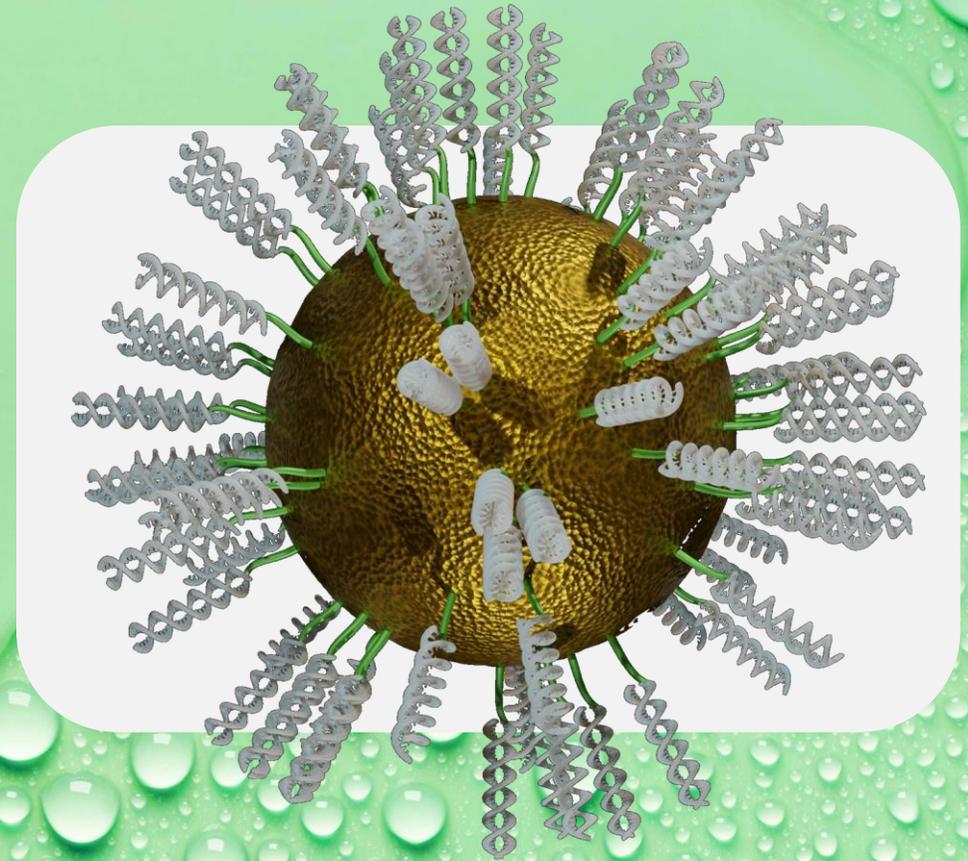
1. Gold

Antioxidant / Skin rejuvenation / Active carrier

Gold is a luxury cosmetic ingredient renowned for its antioxidant properties and **ability to rejuvenate the skin**. As a noble metal, gold particles enhance cell regeneration and improve skin elasticity, reducing the appearance of fine lines and wrinkles.

When used as a carrier, gold nanoparticles **facilitate the delivery of active ingredients** deep into the skin, ensuring optimal efficacy. This enhances the bioavailability and stability of the actives, maximizing their benefits. Gold's anti-inflammatory properties also help to soothe and calm irritated skin, making it **ideal for sensitive and aging skin types**.

With particle sizes greater than 100 nm, it does not meet the criteria to be considered a nanomaterial and is also not biopersistent, ensuring **safety and compliance**.





02 Ingredients

2. Ferulic acid

Antioxidant / Photoprotection / Skin brightening

Ferulic Acid is a potent antioxidant renowned for its **ability to neutralize free radicals and protect the skin from environmental damage**. It stabilizes and enhances the effectiveness of other antioxidants, such as vitamins C and E, providing superior photoprotection.

It helps prevent skin aging by inhibiting UV-induced oxidative stress and collagen degradation. Additionally, it promotes a brighter complexion by **reducing hyperpigmentation and improving skin tone**. When combined with other actives, ferulic acid enhances their stability and efficacy, making it a valuable ingredient in anti-aging and brightening formulations.

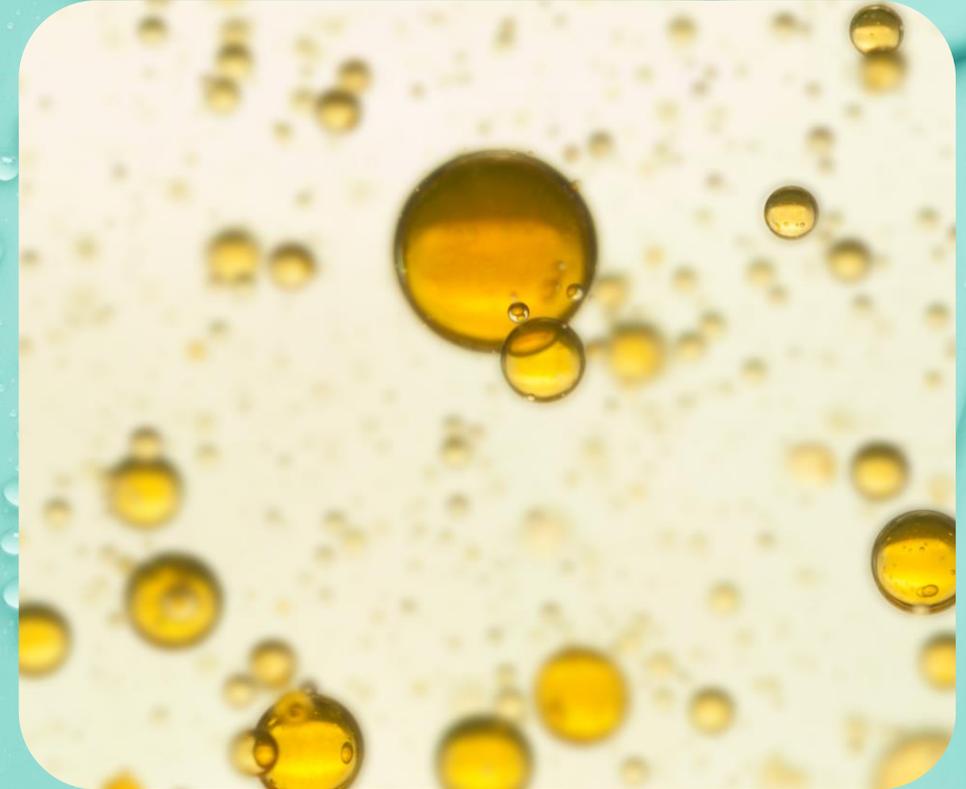
02 Ingredients

3. Ascorbic acid

Antioxidant / Collagen booster / Skin brightening

Ascorbic acid, commonly known as vitamin C, is a powerful antioxidant known for its role in **collagen synthesis and skin brightening**. It protects the skin from oxidative stress caused by UV exposure and environmental pollutants, reducing the appearance of fine lines and wrinkles.

It also inhibits melanin production, helping to fade dark spots and even out skin tone. Its ability to stimulate collagen production enhances skin elasticity and firmness. In combination with other antioxidants like ferulic acid, ascorbic acid provides comprehensive **protection and rejuvenation**, resulting in a radiant and youthful complexion.





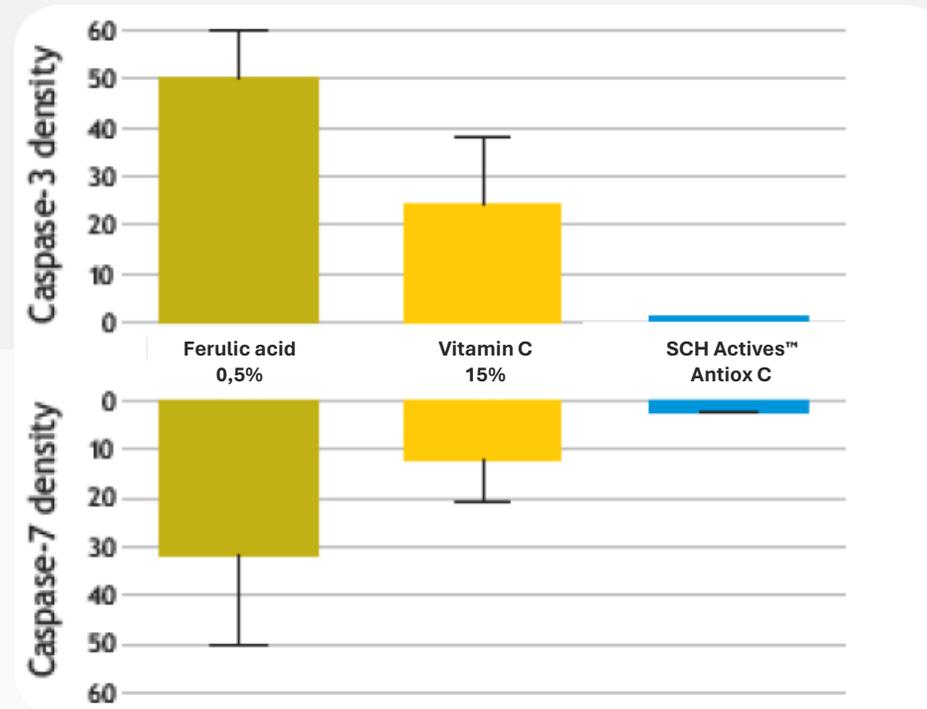
03 Studies

520 ml
3.3 ORB

03 Reduction of caspase-3 and 7 in skin after UV-damage

Caspases are proteins that play a key role in the **apoptosis process induced by stimulus such as UV** in skin cells and occurs in both epidermis and dermis.

Caspase-3 is known as an executioner caspase in apoptosis because of its role in coordinating the destruction of cellular structures such as DNA fragmentation or degradation of cytoskeletal protein and caspase-7 is an effector caspase with important roles in mediating cell death signaling.



03 Potent effect against UV induced damage in human skin

Skin was induced with UV damage and not treated as a control, then, treated with ferulic acid (0,5%), vitamin C (15%) and SCH Actives™ Antiox C before exposure to solar simulated radiation to see the protection effects of the actives.



03 In vivo study

- 20 panelists
- 35-60 years old
- SCH Actives™ Antiox C at 0,30%
- Applied twice daily for 4 weeks





04

Specifications





04 Technical specifications

CHARACTERISTIC	SPECIFICATION
Aspect	Liquid
Color	Purple pink to dark lilac
Odor	Characteristic
Dosage (%)	0,3 – 0,5
Expiration	24 months
Solubility	Dispersible in water
Regulatory status	
Europe	OK
China	OK
USA	OK





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