

# RAYOLYS

LIGHTENER



COMPLEXION

RAYOLYS

PHYTOBIOACTIVE

Available

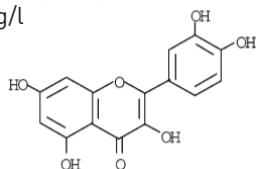
**ORGANIC**  
Version

## > ACTIONS

- Lightens and illuminates the complexion
- Reduces pigmentation and pigmentation spots
- Restructures epidermis
- Traps free radicals

## COMPOSITION

- **Flavonoids** (in quercetin):  
0.5-2.5% / DM\*
- **Alpha Hydroxy Acids (AHA)**  
(in citric acid) > 1 g/l



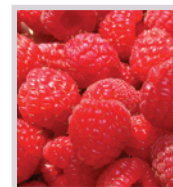
\*Dry matter

## ORIGIN

Peach  
*Prunus persica*  
(Leaf)

Apple  
*Pyrus malus*  
(Fruit)

Raspberry  
*Rubus idaeus*  
(Fruit)



## > MECHANISM OF ACTION

A synergy of 3 families of molecules: vitamin C, flavonoids and AHA (malic and citric acids), acts to inhibit tyrosinase and to reduce pigmentation, to lighten by exfoliating and to stimulate skin regeneration.

## > COSMETIC BENEFITS

- The complexion is lighter, brighter and uniform. Dark spots are reduced.
- Skin is regenerated and appears younger.

## > COSMETIC USES

- ▶ **Anti-ageing care products**
- ▶ **Anti-dark spot care products**
- ▶ **Mature skin range**

## > SCIENTIFIC PROCESS

### • Pigmentation

Throughout life, various factors can cause skin hyperpigmentation and lead to the appearance of dark spots (ageing, UV, hormones, etc.). Pigmentation is the result of melanin, eumelanin and pheomelanin synthesis (in melanosomes of the melanocyte). The key enzyme in this process is tyrosinase.

### • RAYOLYS

Vitamin C inhibits tyrosinase, thus reducing pigmentation; it also traps free radical and promotes collagen synthesis.

Flavonoids, with antioxidant properties, participate in skin restructuring.

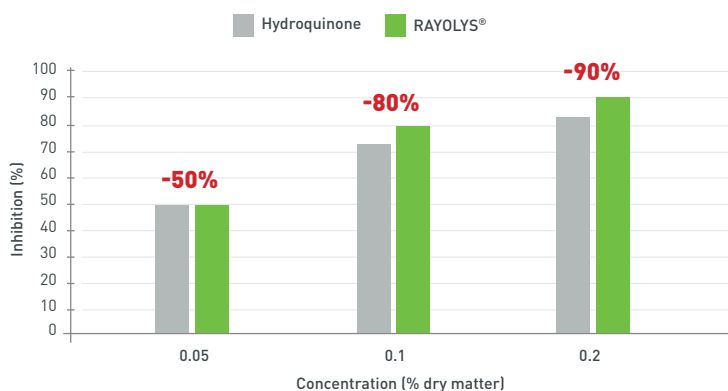
Malic and citric acids, thanks to their exfoliating action, reduce pigmentation by eliminating melanin-rich keratinocytes.

## > PROVEN EFFICACY

IN VITRO  
TESTS

### ANTI-TYROSINASE ACTION

- **-90%**, more effective than hydroquinone (at a concentration of 0.2%)



### ANTI-FREE RADICAL ACTION

- Neutralization of **80%** of superoxide ions (Xanthine Oxidase test)

### ANTI-ELASTASE ACTIVITY

- Inhibition of **30%**

## FORMULATION

**Concentration for use:** 1 to 5%

### Caution for use

Add to emulsions, at the end of the preparation process, either cold or at 35-40 °C, during cooling.

## TECHNICAL DATA

### Characteristics

**Organoleptic** Appearance: clear liquid  
Colour: yellow to amber

**Solubility** Water: soluble

### Storage

Keep in a dark place, in the original packaging and at ambient temperature (15-25 °C). Use rapidly once opened, or transfer to sterile packaging.

### Tolerance tests

- Eye irritation: mildly irritating
- Skin irritation: non-irritant

INCI name: Prunus persica (Peach) Leaf Extract, Rubus idaeus (Raspberry) Fruit Extract, Pyrus malus (Apple) Fruit Extract, Ascorbic Acid

Preservative: Several versions available, see specifications

Authorized: 

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