

Rutin EP

Description

Rutin is a glucosid composed of quercetin and rutinose (a disaccharide of glucose and rhamnose). Rutin is one of the natural flavonoides, which are applied in the traditional medicine since centuries. It is widespread in many plants and often together with vitamin C. Our rutin is produced from the flowers of japonicum syn. Sophora japonica.

Rutin can be used in skin care for stabilization of basic and special raw materials which are sensitive to oxidation, for stabilization of cosmetic formulations against the decomposition by oxygen and micro-organisms for anti-aging products as scavenger in hair care products to increase the supply of blood in the scalp and in order to prevent the formation of dandruff. Flavonoids are demonstrating a very good antioxidative effect. In 1999 it was concluded that some flavonoids like rutin are excellent antioxidants by their mode of action and are able to inhibit the activity of lipoxygenase in liposomes. Rutin has an antioxidative effect beginning in concentrations of 0.001 %. Rutin inhibits platelet aggregation, as well as decreasing capillary permeability, making the blood thinner and improving circulation.

Efficacy

- acts as an antioxidant
- stabilizes cosmetic formulations
- acts antiphlogistic
- prevents oxidation decomposition of collagen
- protects the skin from environmental damages
- decreases capillary permeability
- increases microcirculation

Appearance

yellow or greenish-yellow crystalline powder

INCI

Rutin

Registration

CAS-No.....153-18-4

EC-No.....205-814-1

Preservatives / Stabilizers

none

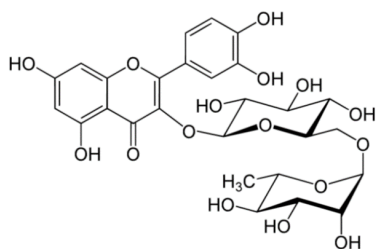


Nature needs no cosmetics,
but cosmetics need nature

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Characteristics

assay.....95 - 101 %
water content.....7.5 - 9.5 %



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molecular formula..... $C_{27}H_{30}O_{16}$
molecular weight.....610.52 g/mol⁻¹
synonym:
rutosid, sophin, quercetin-3-O-rutinosid

Application

daily cosmetic products
creams and lotions
face masks
gels and ampoules
body care

Application concentration

skin care formulations.....0.001 - 0.05 %

Incorporation

One part rutin can be solved in 40 parts of phenylethanol-1. Rutin is also soluble in ricinus oil and pentylene glycol under moderate heating (40°C - 50°C).

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

Rutin should be stored in tightly closed containers at a dry and light protected place with good ventilation at 10 - 25°C.

In closed original containers the shelf life is 36 months.