

Ursolic Acid Na-Salt natural

Description

Ursolic acid Na-Salt natural is a mixture of Ursolic acid Sodium Salt and Oleanolic acid Sodium Salt which occurs in many plants. These pentacyclic triterpenoid acids are manufactured by extraction of Eriobotrya japonica and Olea Europaea leaves. It can be also found mainly in the balm of rosemary leaves. Ursolic acid and Oleanolic acid have an isomer structure and belong to one of the strongest triterpenoids, which is of most interest to use in Anti-Aging and Anti-Photo-Aging products.



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Appearance

white powder

INCI

Sodium Ursolate, Sodium Oleanolate

Registration

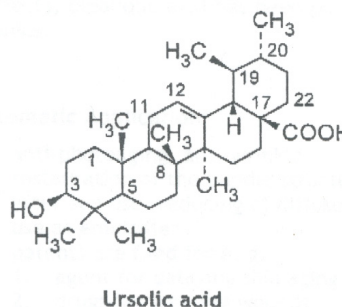
CAS-No.:
 220435-39-2 Ursolic Acid Sodium Salt
 126309-42-0 Oleanolic Acid Sodium Salt

EINECS-No.:
 201-034-0 Ursolic Acid

Effects

- anti-photo-aging
- inhibition of Elastase
- anti-oxidant
- anti inflammatory
- stabilization of liposome membranes
- anti-tumor activity
- anti-microbial activity

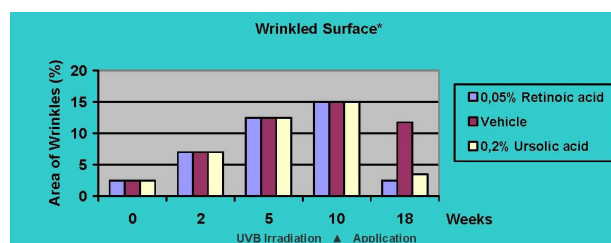
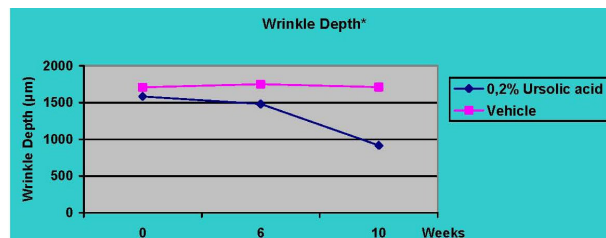
Chemical Structure



Technical Data

content of Ursolic Acid Sodium Salt.....65 - 80 %
 content of Oleanolic Acid Sodium Salt.....20 - 30 %

Efficacy



*Source: 20 th IFSCC Congress, Cannes, 1998, Nishimori & al Paper No 9

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Application

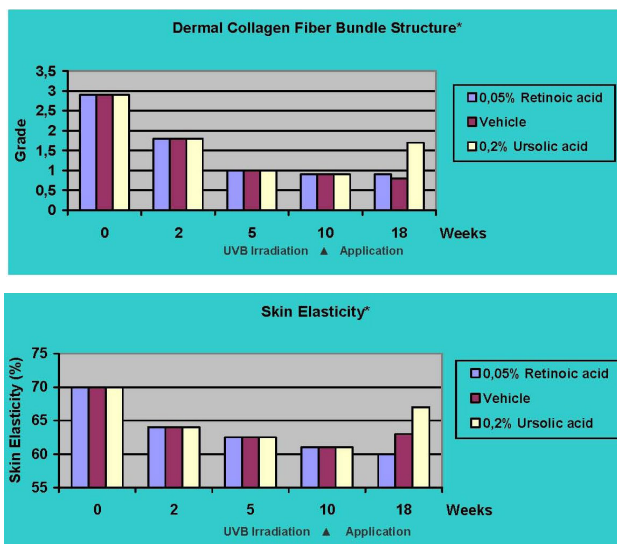
The Anti-Photo-Aging effect of Ursolic acid and Oleoic acid is well documented and stands out from all the other effects of the acids.

The application of a cream containing 0.2 % Ursolic acid or Oleoic acid on the skin of 20 test persons could regenerate dermal collagen fiber bundles structures and by this also skin elasticity.

These repair effects also caused a significant reduction of the number and depths of wrinkles.

Compared to Retinoic acid the two tripenoid acids demonstrated a marked superiority. Retinoic acid did not show any repair effects to the skin collagen structure and therefore also not to skin elasticity. Contrary to Ursolic acid and Oleoic acid Retinoic acid causes also an unnatural look of the treated skin.

Depending on the objective of the cosmetic formulations based on Ursolic acid and Oleoic acid the use concentration of the acids will be 0.1 - 0.3 %.



*Source: 20 th. IFSCC Congress, Cannes, 1998, Nishimori & al Paper No 9

Application concentrations

Anti-Aging preparations.....	0.2 - 0.3 %
Sun protection.....	0.2 %
After sun cosmetics.....	0.2 %
Cosmetics to safe skin smoothness.....	0.1 - 0.2 %
Daily creams.....	0.1 %

Toxicology

Non-hazardous in normal use concentration.
Pure raw material is irritating to eyes.

Solubility

Nearly insoluble in water.
Solubility in Ethanol, Phenethyl Alcohol, Pentylene Glycol and Propylene Glycol is about 1 %.
Moderate heating up to 40°C and stirring is recommended.

1 % Ursolic Acid Na-Salt natural can be solved in a mixture of 10 % Ethanol, 5 % Glycerin, 5 % Water and 79 % Phenethyl Alcohol. Prior dispersion in oil is possible.

Storage & Shelf life

Ursolic Acid Na-Salt natural should be stored in dry, sealed and light protected containers at 10°C - 25°C. It is stable for two years.

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