

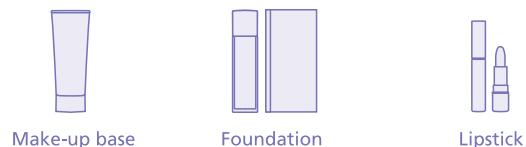
TPNa is a brand-new active for cosmetic applications.

Its good reputation and evaluation can easily be noticed in your formulation.

Skin care



Make-up



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Effective on

Dry Skin Acnes Erythema Anti-aging

for excellent skin care
through cosmetic products

Sodium Tocopheryl Phosphate

Trade name:

TPNa[®]



World-first
Water soluble →
Vitamin E

Active Ingredient
for Quasi Drug in Japan
(Efficacy: Prevention and cure of rough dry skin)

Quasi Drug Additive
(Anti-Oxidant)

World-First

TPNa is suitable for any application and Quasi-Drug system.



Active Ingredient for Quasi Drug in Japan
(Efficacy: Prevention and cure of rough dry skin)

Quasi Drug Additive
(Anti-Oxidant)

Excellent trans dermal absorption, water- soluble Vitamin E derivative.

(INCI name: Sodium tocopheryl phosphate)

Vitamin E (α -tocopherol) is one of the most important vitamins for cosmetics, and it protects skin from oxidative attack of radicals and peroxide. Unfortunately, Vitamin E is not easy to formulate into aqueous solutions because of its oil character, furthermore it easily oxidizes and quickly loses its reductive activity. TPNa, on the contrary, has been designed in order to overcome those problems, and introduced a phosphoryl group to protect its oxygen-sensitive hydroxyl group in tocopherol. TPNa is the only Vitamin E derivative substantially soluble in water (amphiphilic character) available worldwide. TPNa is registered an active ingredient for Quasi Drug in Japan for the prevention and cure of rough dry skin.

1st
Characteristic

Significant increase of skin moisturization

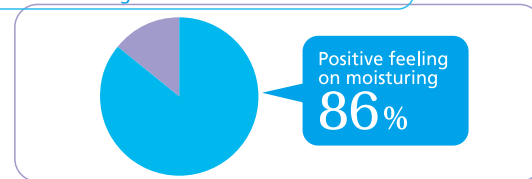
Enhancement on ceramides synthesis in the skin

TPNa is unique and typical for increasing the cuticle moisture content with in a short period, where we found a significant enhancement on the expression of serine palmitoyltransferase closely related to ceramide synthesis. It clearly shows its moisturizing effect on the skin.

Cuticle moisture content was increased by 150% within 2 months.



Positive feedback by test users on its moisturizing effect.



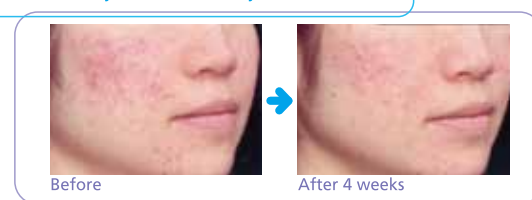
2nd
Characteristic

Active Ingredient for Quasi Drug in Japan

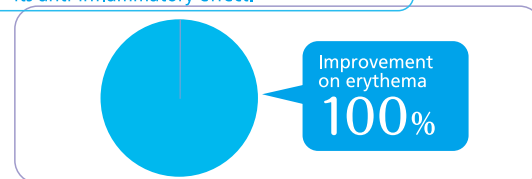
Anti inflammation effect releases your skin from troubles

Acne and Erythema are usually generated by skin inflammation and stresses, which TPNa can easily erase thanks to its anti-inflammatory effect. TPNa moisturizing effect also improves these troubles significantly. TPNa has a strong anti-inflammatory effect and a radicals-scavenging effect, which prevents and cures acnes and erythema. Applied on a skin portion rich in sebaceous gland, you can easily noticed the significant decrease of skin troubles coming from lipid-oxidations and inflammations.

Relieves erythema caused by stresses.



Test users appreciate and confirmed its anti-inflammatory effect.



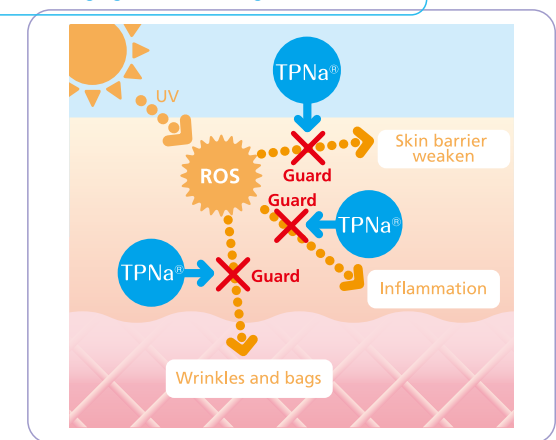
3rd
Characteristic

Anti-oxidation and Anti-aging effect

Skin protection against UV damage

ROS (Reactive Oxygen Species) caused by UV irradiation are harmful to our skin and make significant damage on collagens and dermis strain. TPNa is an excellent active for scavenging and eliminating ROS, which helps you to keep the freshness and youth of the skin.

Scavenging and eliminating ROS



Benefits by TPNa

Active Ingredient for Quasi Drug in Japan

Prevents and cures rough dry skin. TPNa can also be used as a Quasi Drug Additive for anti-oxidant application

Suitable for any applications

Applicable for water-based formulations.

Extraordinary transdermal absorption

Quick conversion to Vitamin E into the skin.

High vitamin E content in the formulation

Excellent and strong efficacy on skin troubles.

Function as an emulsifier

Avoids the use of conventional surfactants and detergents in the formulations.