



**COSMOS
APPROVED**



NATRUE Approved

KeraGuard

Powerful protection and
repair for hair and nails



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KeraGuard combines tara tannins derived from *Caesalpinia spinosa* pods and organic sunflower sprout extract. This unique combination is revealed as a powerful anti-oxidant elixir for hair and nail care applications.

Although hair is a physiological phenomenon, it is also a social one. Indeed, hair is an object of intense elaboration and preoccupation in almost all societies. Hairstyles and rituals surrounding hair care and adornment tend to convey powerful messages about the beliefs, lifestyles and commitments of a person. Therefore, our hair is regularly subjected to weathering.

Hair weathering is the deterioration of the hair shaft from root to tip and is the result of a range of cosmetic and environmental factors. Cosmetic practices such as combing, brushing, straightening, perming, dyeing, etc., as well as environmental factors such as exposure to UV light and polluted air can induce structural damage to the F-layer and the hair fiber. The cuticle becomes raised and porous, which exposes the cortex to further damage. A decrease in hair shine, color, elasticity and strength is observed, which ultimately leads to hair damage.

Similar to the hair, for most of us, our nails not only have a protective function but also serve an esthetic purpose. Even though the nail plate seems to be an invulnerable protective shield, environmental stressors, such as UV light and harsh chemicals, can reduce the integrity of the keratin structure. This leads to weaker and more brittle nails.

In different studies utilizing state-of-the-art technologies, KeraGuard revealed a capacity to protect hair and nails against free radicals. KeraGuard was shown to increase nail thickness, leading to stronger and more beautiful nails. In addition, KeraGuard protects dyed hair from color fading and repairs chemically treated hair. The protective effect of KeraGuard from urban pollution in hair was unveiled by quantitative determination of carbonylated keratin and by high resolution images.

KeraGuard

- Protects hair against heat, urban pollution and UV stress
- Repairs chemically treated hair
- Prevents the color fading of hair
- Protects and strengthens nails
- Improves nail thickness

Applications

- Shampoos, conditioners, masks
- Styling products
- Color protection products
- Heat protection formulas
- Nail strengthening serums

Formulating with KeraGuard

- Recommended use level: 0.5 %–2 %
- Incorporation: For cold processes, dissolve KeraGuard into the aqueous phase. In hot/cold processes, add during the cooling phase below 40 °C.
- Thermostability: Temperatures of up to 40 °C for a short time will not affect the stability of KeraGuard.

INCI Declaration

KeraGuard (standard version):

Caesalpinia Spinosa Fruit Extract (and) Propylene Glycol (and) Helianthus Annuus (Sunflower) Sprout Extract (and) Sodium Benzoate (and) Phenoxyethanol (and) Aqua/Water

KeraGuard pwd (powder version without preservatives, two-fold concentrated, COSMOS approved*, NATRUE approved version):

Caesalpinia Spinosa Fruit Extract (and) Helianthus Annuus (Sunflower) Sprout Extract (and) Maltodextrin (and) Aqua/Water

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Marketing Benefits

- Extremely powerful natural antioxidant complex
- Performs effectively in various formulations for hair or nails
- Available in a version without preservatives
- Available in a COSMOS approved version
- Available in a NATRUE approved version



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Innovating for your success

Mibelle Biochemistry designs and develops innovative, high-quality actives based on naturally derived compounds and profound scientific know-how. Inspired by nature – Realized by science.

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