



ACTIVE
INGREDIENTS

EUK-134™

—
SUPER ANTIOXIDANT

Biomimetic of catalase
and SOD enzyme

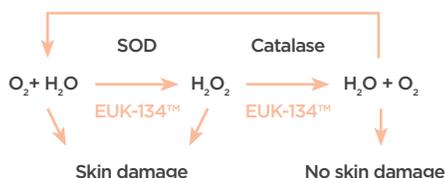
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Protects against free
radicals, DNA damages
and reduces erythema



EUK-134™ IS A SUPEROXIDE DISMUTASE (SOD) AND CATALASE MIMETIC MOLECULE. IT IS A POWERFUL FREE RADICAL SCAVENGER WHICH HELPS PREVENT PREMATURE AGING, REDUCES UV DAMAGE, PROTECTS AND REPAIRS DNA.

SUPER ANTIOXIDANT



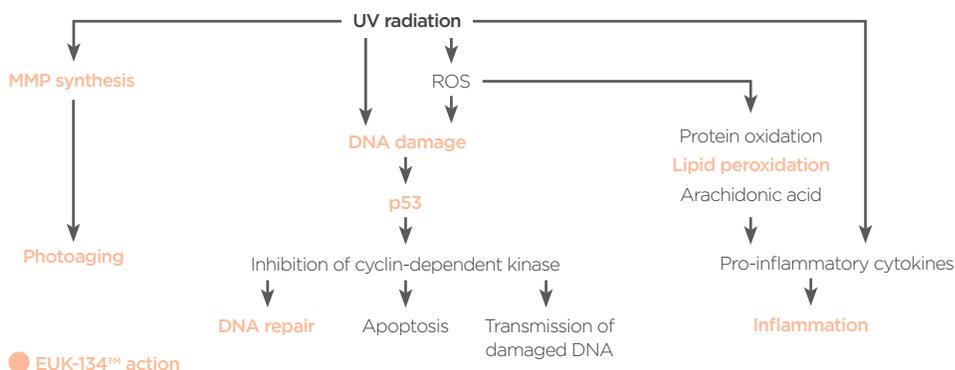
EUK-134™ is a highly purified molecule that mimics superoxide dismutase (SOD) and catalase activities. It scavenger superoxide free radicals, eliminates hydrogen peroxide (H_2O_2) and transforms ROS into water and oxygen which are beneficial for the skin. EUK-134™ has the unique and amazing capacity of regenerating itself during its free radical scavenging action. Thereby, EUK-134™, by itself, represents a complete nature-mimetic antioxidant system that can be used as an active cosmetic ingredient to limit premature aging, reduce photoaging, protect the skin and its DNA from sun damage and decrease redness.



Self regenerating property

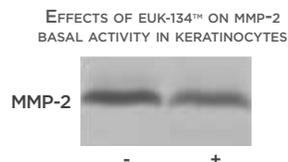
The chemical reactions demonstrate that EUK-134™ regenerates itself during the free radical scavenging procyces. The molecule EUK-134™ contains a Mn (manganese) atom as the active catalytic site in the same manner as the natural enzyme SOD I. The Mn atom undergoes several redox cycles during the reaction with ROS and returns to its original valence state Mn (III) ready to undertake another antioxidant reaction. This feature clearly differentiates EUK-134™ from standard antioxidants as its activity remains potent.

EUK-134™ summary actions



INHIBITING MMP-2

Human keratinocytes were seeded in the absence or in the presence of EUK-134™ and the basal enzymatic activity of MMP-2 was assessed by enzymography.



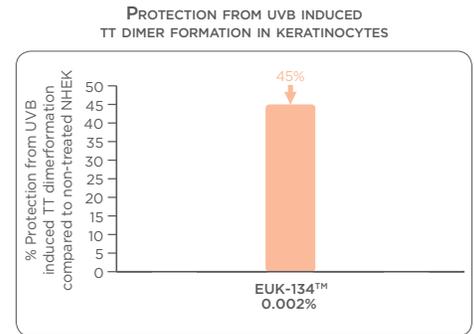
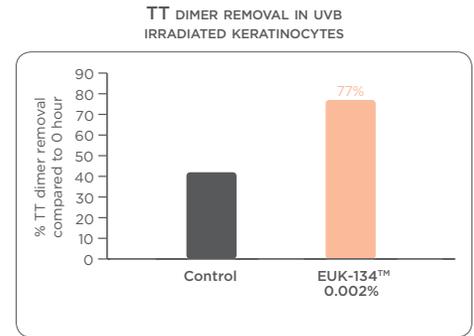
EUK-134™ inhibits MMP-2, thus preserving a good ECM network.

PROTECTING DNA

Thymine dimer (TT dimer) is a pair of abnormally chemically bonded adjacent thymine bases in DNA, resulting from damage by UV irradiation.

Heavy exposure of the skin to UV light causes the formation of thymine crosslinks in the DNA. If repair enzymes do not work properly, this can cause sunburn, premature aging, and other important damages. It is thus very important to protect and repair such damage.

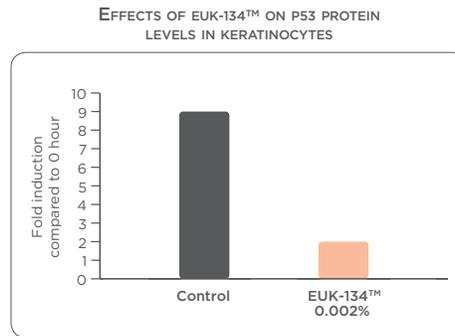
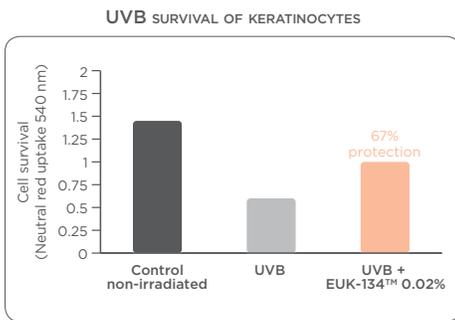
EUK-134™ provides powerful efficacy to protect and repair DNA.



REDUCING DNA DAMAGE

Protecting against UV damage

Reducing p53 level



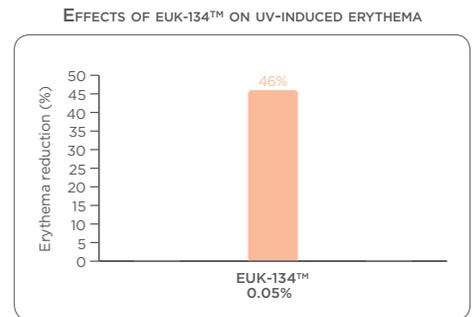
PROTECTING AGAINST UV DAMAGE

Reducing skin redness

Test protocol

9 volunteers (skin type I-III) applied EUK-134™ (0.05%) 2x/day for 3 days.

- UVB exposure range 280-320 nm/n.
- 2 MED (Minimal Erythema Dose).
- Erythema was measured after 24 hours.

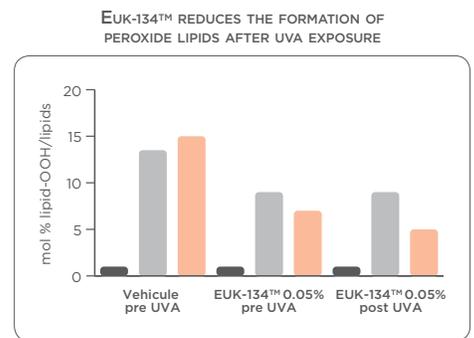


Reducing skin free radicals activity

Test protocol

10 volunteers (skin type II-IV), applied EUK-134™ on inner forearm 1 hour before UVA exposure 1 J/cm², right after UVA exposure 1 J/cm².

- Peroxide lipids vs non-peroxide lipids (nmol/ml).



EUK-134™ reduces damages caused by UV thus preventing premature aging.

● Baseline ● 1 hr ● 2 hrs

EUK-134™ IS AN INNOVATIVE MULTIFUNCTIONAL AND POWERFUL ANTIOXIDANT PROVIDING PROTECTION AGAINST UV DAMAGES.

PRODUCT DESCRIPTION

INCI NAME

Ethylbisiminomethylguaiaicol
Manganese Chloride

CAS

81065-76-1

EINECS

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APPEARANCE

Dark brown to reddish powder

FORMULATION

EUK-134™ should be incorporated at the end of the formulation at a temperature of 20/40°C.

DOSAGE

0.01-0.05%

OPTIMUM pH

6-8

APPLICATIONS

- Prevention of DNA damage
- DNA repair
- Anti-inflammatory
- Antioxidant
- Sun care products and complementary to SPF ingredient
- Anti-irritant
- Anti-stress

CHINA-COMPLIANT

FEATURES AND BENEFITS

FEATURES	BENEFITS
Mimics the activity of two natural skin enzymes, catalase and superoxide dismutase (SOD)	- Protects skin tissue against toxic compounds known as reactive oxygen species (ROS), O ₂ and H ₂ O ₂ - Multifunctional activity
Reduces TT dimers formation	Protects and repairs DNA damage
Protects against UV damages	Reduces redness and limits photo-aging

ANTIOXIDANT FOUNDATION POWDER

INGREDIENTS	INCI NAMES	%
A Rose Talc MS2 KoboMica S25 Amihope LL SP-10L Boroneige 901 DSPCS/20NI2 Magnesium Myristate	Talc (And) Methicone	38.45
	Mica	25.00
	Lauroyl Lysine	10.00
	Nylon-12	5.00
	Boron Nitride	5.00
B Mirasil® DM 350 Parfum Brighton POB Methyl POB Propyl	Silica (and) Ethylene/Methacrylate Copolymer (and) Isopropyl Titanium Triisostearate	3.00
	Magnesium Myristate	2.00
	Dimethicone	2.00
	Fragrance	0.20
	Methylparaben	0.20
C KTZ® Cantaloupe KTZ® Aruban Coral KTZ® Shimmer Orange EUK-134™	Propylparaben	0.10
	Mica (and) Titanium Dioxide (and) Iron Oxides (CI77491, CI77492, CI77499)	4.50
	Mica (and) Titanium Dioxide (and) Iron Oxide (CI77491)	2.20
	Mica (and) Titanium Dioxide	2.30
Ethylbisiminomethylguaiaicol Manganese Chloride	0.05	

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