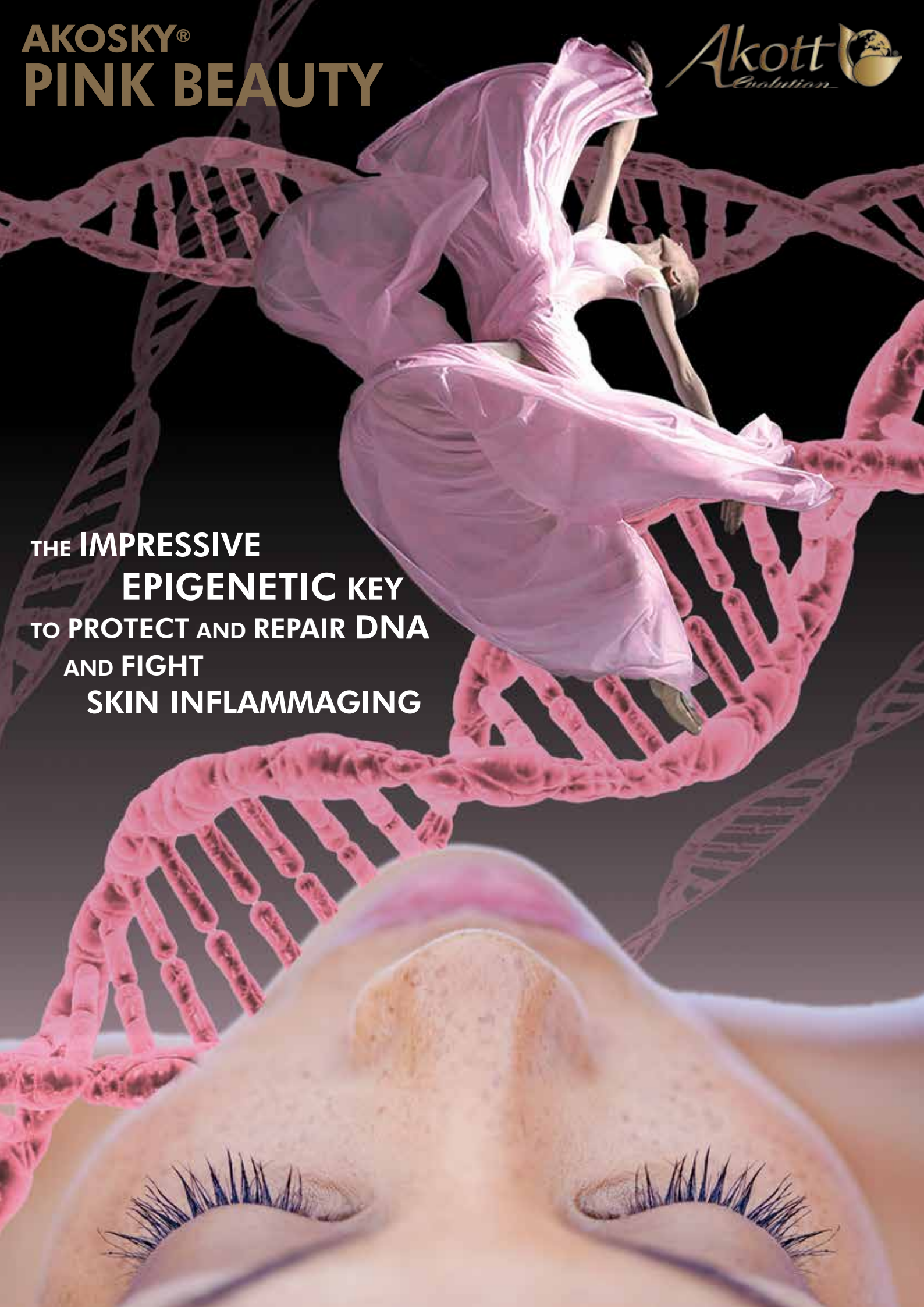


AKOSKY® PINK BEAUTY

Akott Evolution 

THE IMPRESSIVE
EPIGENETIC KEY
TO PROTECT AND REPAIR DNA
AND FIGHT
SKIN INFLAMMAGING



THE CONCEPT

EPIGENETIC DNA REINFORCEMENT

Sprouts are a potent source of active molecules. During sprouting, a substantial increase of secondary metabolites is observed to improve plant free radicals scavenging and to provide antioxidant protection. Raphanus radish sprouts are extremely rich in glucosinolates, healthy sulfur-based secondary metabolites.

From the vitality of Raphanus sprouts, Akott introduces AKOSKY® PINK BEAUTY, the impressive epigenetic key for DNA protection and self-repair.

Akott has identified a unique raphanus genus: Rose Radish. This radish is an ancient species evolved directly from the wild radish. Its characteristic aspect clearly distinguishes it from all other modern, small and round radishes, commonly found in supermarkets.

The Rose Radish is very resistant to environmental stress and it is known as "winter radish" as it can withstand a hard frost without damage. AKOSKY® PINK BEAUTY is obtained through ultrasonic extraction of Rose Radish sprouts.

During sun daily exposure many types of DNA damage occur, and some of them are critical for cell survival. Epigenetic modification, caused by aging, environmental chemicals, UV, drugs and diet, can deeply influence the DNA process of response and repair.

AKOSKY® PINK BEAUTY is able to protect chromatin conformation in the nucleus through an epigenetic mechanism to activate rapid DNA self-repair.

ORIGIN

Fresh Organic Raphanus Sprout extract

ECO SUSTAINABLE SOLUTION

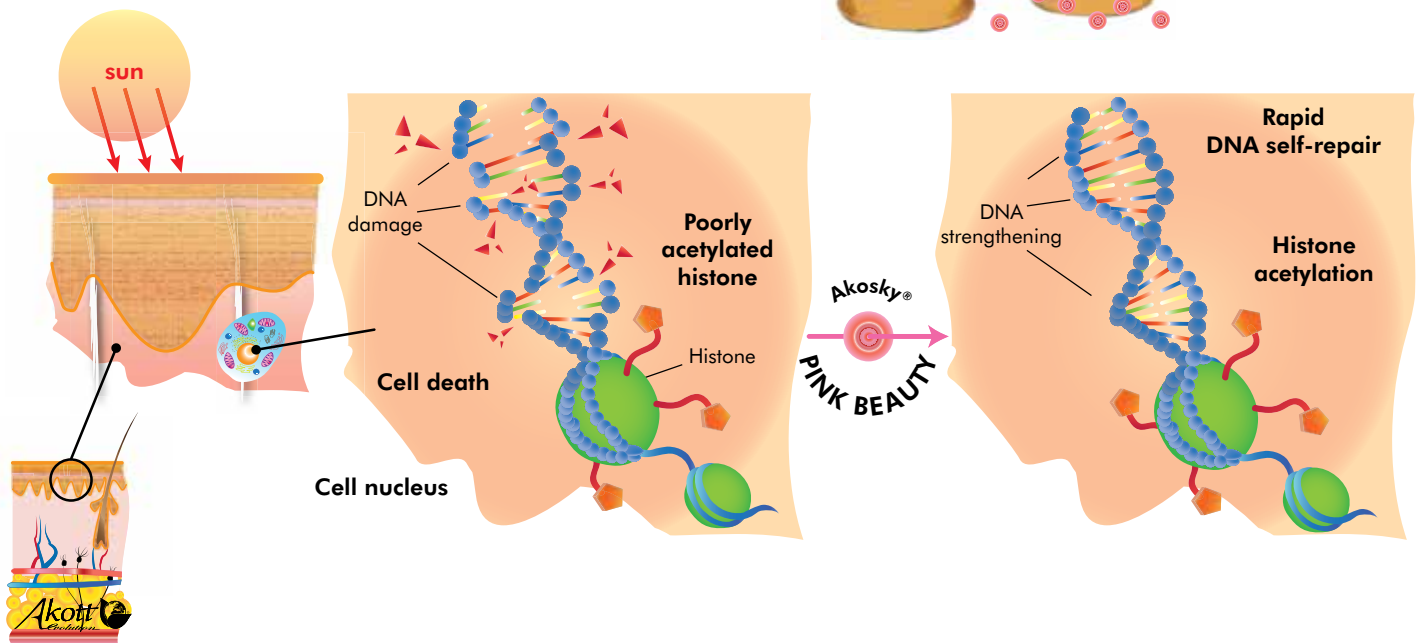
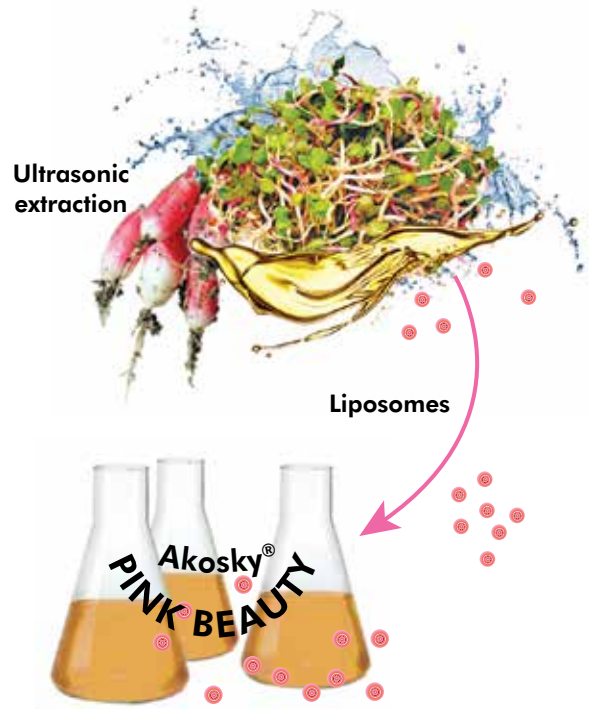
The extract is produced in the laboratory under controlled conditions, avoiding plant depletion from the environment.

MECHANISM OF ACTION

Isothiocyanates protect skin's DNA from damage and stimulate DNA self-repair process through epigenetic.

EFFICACY

EPIGENETIC DNA CONTROL AGAINST INFLAMMAGING: *in vitro* testing shows a reduction of DNA Damage (CPDs formation), an increase in DNA Repair (BrdU uptake) and an inhibition of Epigenetic mechanism (HDAC activity) to protect DNA following UV damage. Clinical studies show a visible reddening reduction after UV irradiation and a substantial support to the skin barrier.



EFFICACY EVALUATION

RESULTS

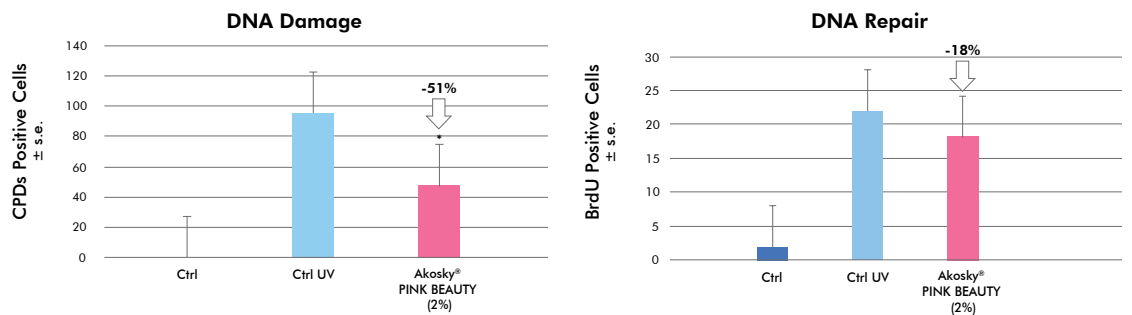
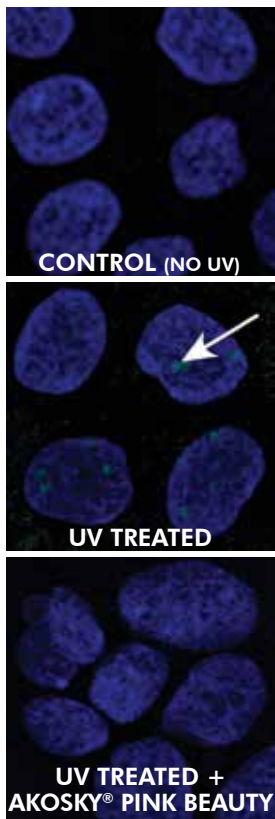
LABORATORY STUDY (*in vitro*)

EFFICACY ¹	TEST	RESULTS*
DNA Damage	Cyclobutane Pyrimidine Dimers (CPDs) levels	-51%
DNA Repair	Bromodeoxyuridine (BrdU) positive cells	-18%
Epigenetic Mechanism	Histone Deacetylase (HDAC) inhibition	-15%

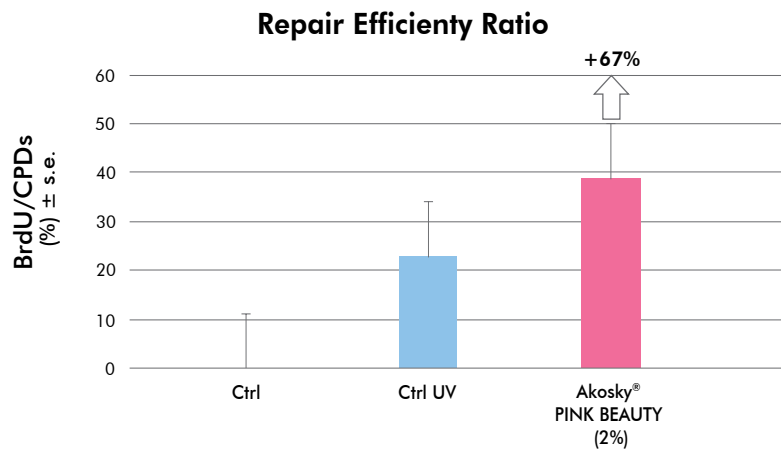
Study was run on Human Keratinocytes (HaCat)⁽¹⁾, *AKOSKY® PINK BEAUTY 2%.

Confocal microscopy images show CPDs formation as green dots on UV irradiated cells (see arrow).

Cells treated with AKOSKY® PINK BEAUTY show a clearly reduction in CPDs compared to UV treated cells.



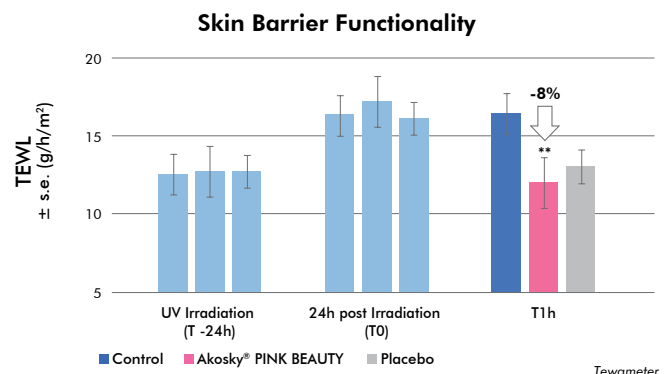
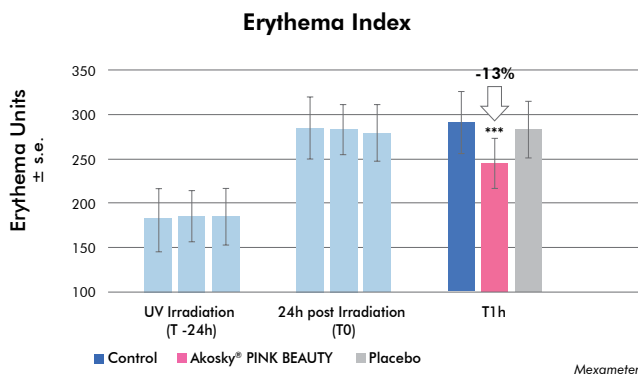
*p ≤ 0,05, **p ≤ 0,01, ***p ≤ 0,001, ****p ≤ 0,0001 compared to Control UV



CLINICAL STUDY

20 volunteers, both male and female (age 20-65 years old) were UV irradiated on three skin sites on the back using a solar simulator to generate a local erythema (T -24h). After 24h (T0), one site was treated with a cream containing AKOSKY® PINK BEAUTY at 1%, one site with a placebo formulation and one site was left untreated.

Erythema and Trans Epidermal Water Loss (TEWL) measurements were taken at T -24h, T0, T1h.



*p ≤ 0,05, **p ≤ 0,01, ***p ≤ 0,001, ****p ≤ 0,0001 compared to Placebo

*p ≤ 0,05, **p ≤ 0,01, ***p ≤ 0,001, ****p ≤ 0,0001 compared to Control

PRODUCT INFORMATION

INCI name: Glycerin, Aqua (Water), Caprylic/Capric Triglyceride, Raphanus Sativus Sprout Extract, Lecithin, Caprylyl/Capryl Glucoside, Leuconostoc/Radish Root Ferment Filtrate, Xanthan Gum

CAS number: 56-81-5, 7732-18-5, 65381-09-1, 84775-94-0, 8002-43-5, 68515-73-1/--/11138-66-2

EINECS number: 200-289-5, 231-791-2, 277-452-2, 283-918-6, 232-307-2, 500-220-1/--/ 234-394-2

REGULATORY: UE, USA, China*, Japan*

**INCI Glycerin, Aqua (Water), Caprylic/Capric Triglyceride, Raphanus Sativus Seed Extract, Lecithin, Caprylyl/Capryl Glucoside, Leuconostoc/Radish Root Ferment Filtrate, Xanthan Gum*

APPEARANCE: Slightly viscous yellow opalescent liquid

SOLUBILITY: Hydrosoluble

USE: Recommended dosage is 1%

FORMULATION TIPS: Recommended pH range is 5 – 8.

Stable up to 80°C, to be added at the end of the formulation.

Non-ionic emulsifiers are recommended. Avoid cationic emulsifiers.

SAFETY DATA: AKOSKY® PINK BEAUTY has been tested for skin tolerance and has demonstrated a very good safety profile

COSMETIC PROPERTIES

PROTECTS DNA THROUGH EPIGENETICS, STIMULATES DNA SELF-REPAIR,
REDUCES INFLAMMATION, DELAYS PHOTO-AGING, PROTECTS FROM EVERYDAY SUNLIGHT,
HELPS TO MAINTAIN HEALTHY SKIN FUNCTIONS

APPLICATIONS

ANTI-AGING DAILY CREAMS

SOOTHING PRODUCTS, BODY CARE

SUN CARE PRODUCTS, AFTER SUN LOTIONS

CLINICALLY TESTED FORMULATION:

PHOTOPROTECTION CREAM

PHASE	INGREDIENT	%
A	Cetearyl Alcohol, Sorbitan Stearate, Sodium Lauroyl Lactylate, Caprylic/Capric Triglyceride, Hydrogenated Lecithin	4,7
	Myristyl Alcohol	4,1
	Hydrogenated Castor Oil	1,8
	Ethylhexyl Stearate	4,9
	Isononyl Isononaoate	4,9
B	Caprylic/Capric Triglyceride	4,0
	Aqua (Water)	70,7
C	Glycerin	2,8
	Etidronic Acid	0,1
D	Ethylhexylglycerin, Phenoxyethanol	1,0
	AKOSKY® PINK BEAUTY	1,0



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