



# ECOPHYSALIS

Fighting against photoaging



**CHEMYUNION**

Inspired by innovation

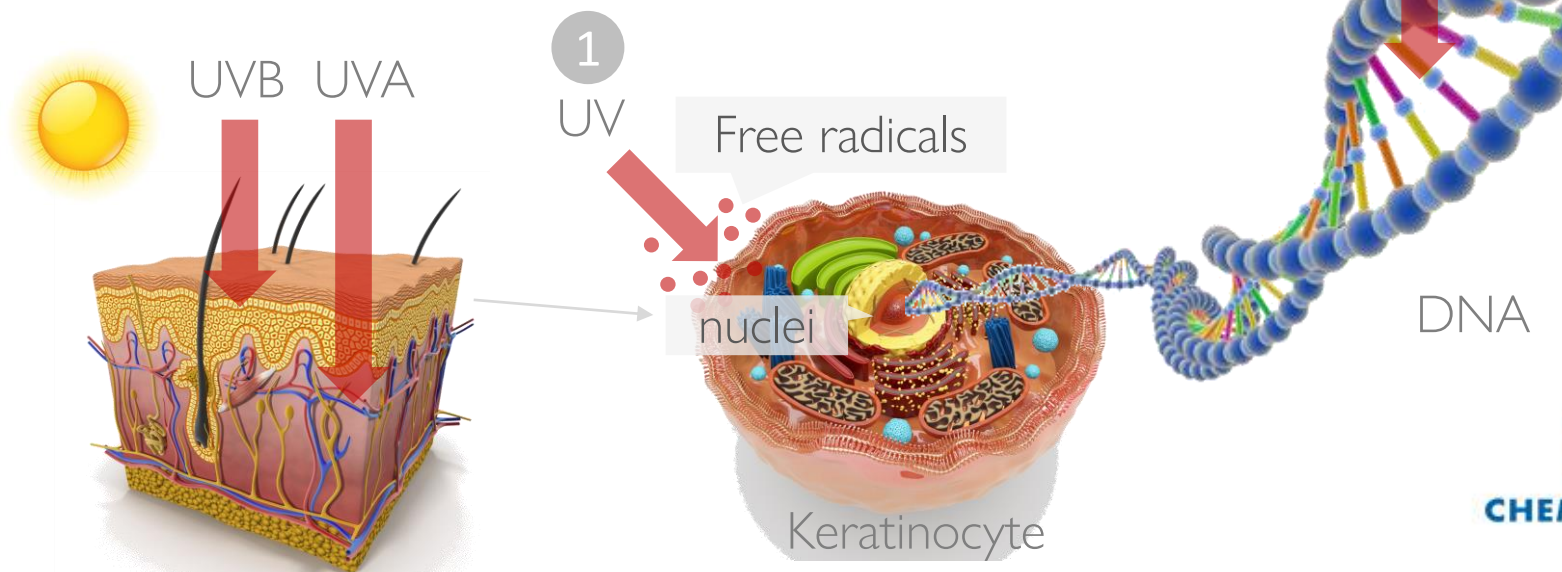
# Excess UV Radiation

## 1 Indirect interaction

UV → free radicals

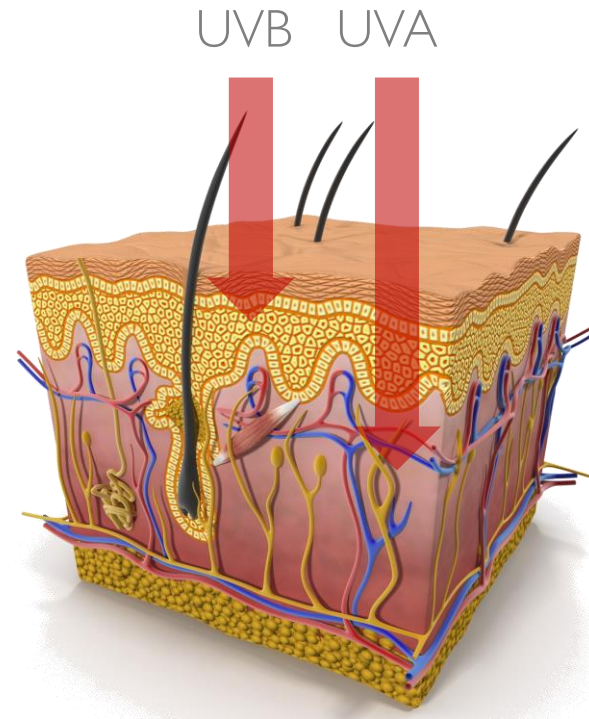
## 2 Direct interaction

UVB → DNA



# Consequences

- Photoaging
- Erythema and discomfort
- Hyperpigmentation



# Ecophysalis

- Camapu (*Physalis angulata*) glycerin extract
- Rich in phytosterols, an antioxidant that protects the skin from photoaging
- Cosmos-Ecocert certified



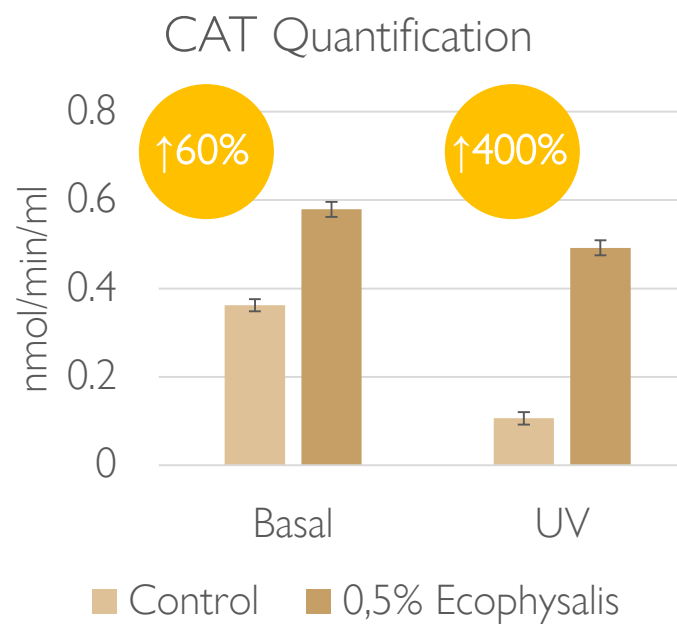
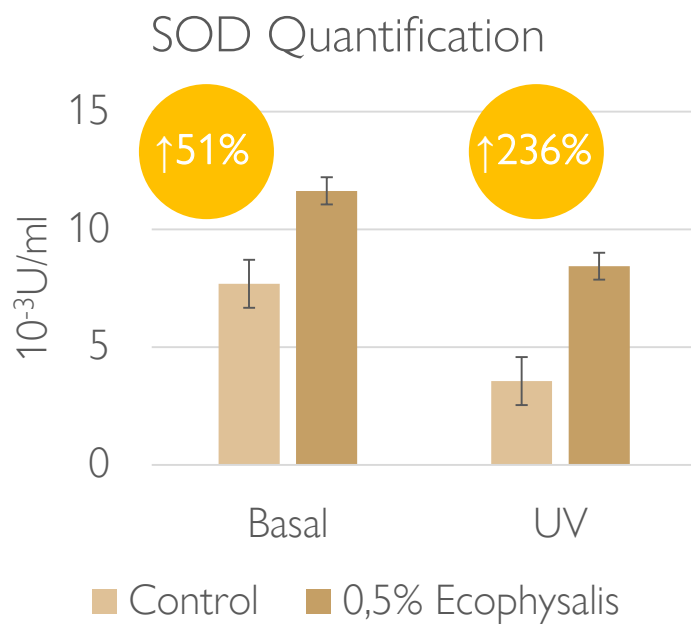
INCI: Water (and) Glycerin (and) Physalis Angulata Extract



# Ecophysalis

## Antioxidant activity

Human keratinocytes incubated for 48 hours with 0.5% Ecophysalis and UVA radiation (1,5 J/cm<sup>2</sup>)



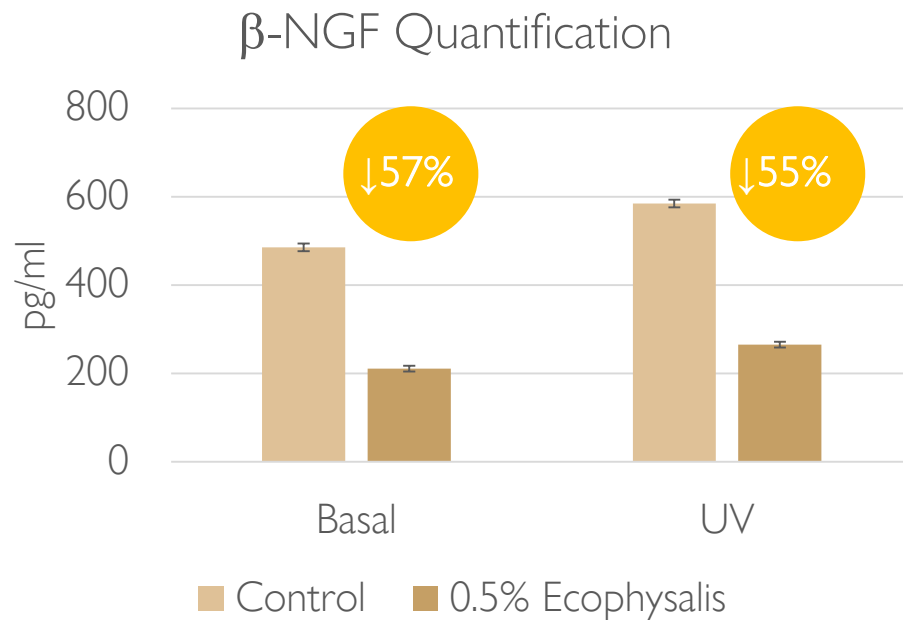
SOD– Superoxide dismutase

CAT - Catalase

# Ecophysalis

## Reducing sensitivity and discomfort

Human keratinocytes incubated for 48 hours with 0.5% Ecophysalis and UVA radiation (1,5 J/cm<sup>2</sup>)

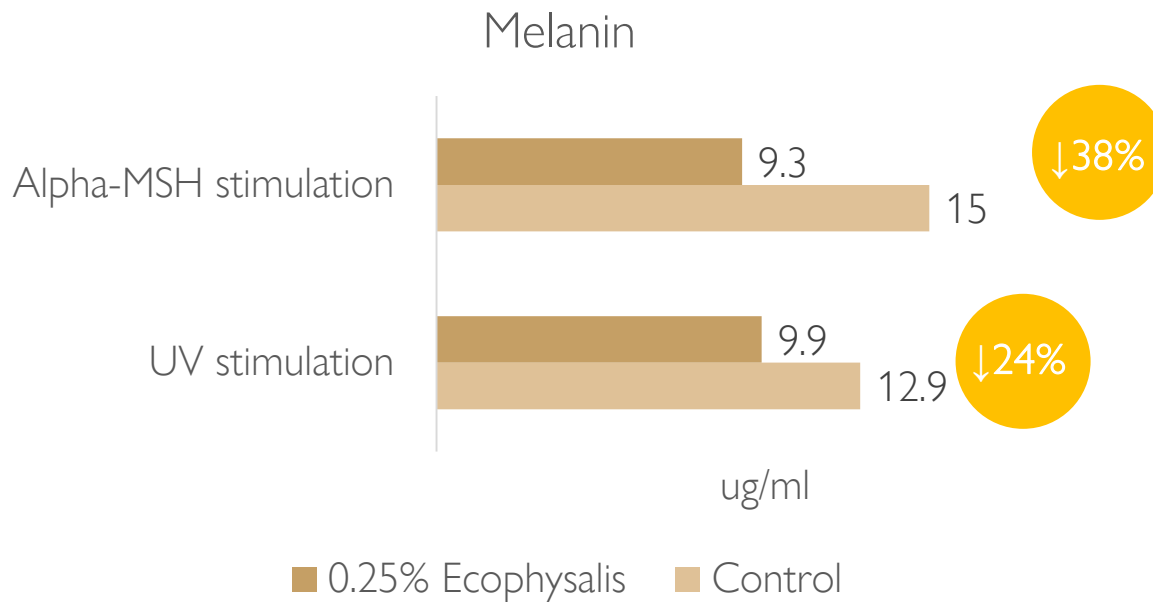


$\beta$ -NGF – Nerve growth factor

# Ecophysalis

## Skin Lightening effect

Human melanocytes incubated for 48 hours with 0.25% Ecophysalis and  $\alpha$ -MSH (50 nM) or UVA (1,5 J/cm<sup>2</sup>) stimulation



Alpha - MSH– alpha – melanocyte stimulating hormone



# Ecophysalis

## Benefits

- Protection of the skin against photoaging
- Reduction of sensitivity and discomfort of the skin to UV radiation stimuli
- Combating oxidative stress imbalance of the skin
- Reduction of hyperpigmentation of the skin
- Increased skin luminosity





# Ecophysalis

## Application

- Facial and body sunscreen lotion
- Serum
- Soothing depilatory cream
- After shave balm

## Concentration of use

1-5%



THANK YOU!



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