



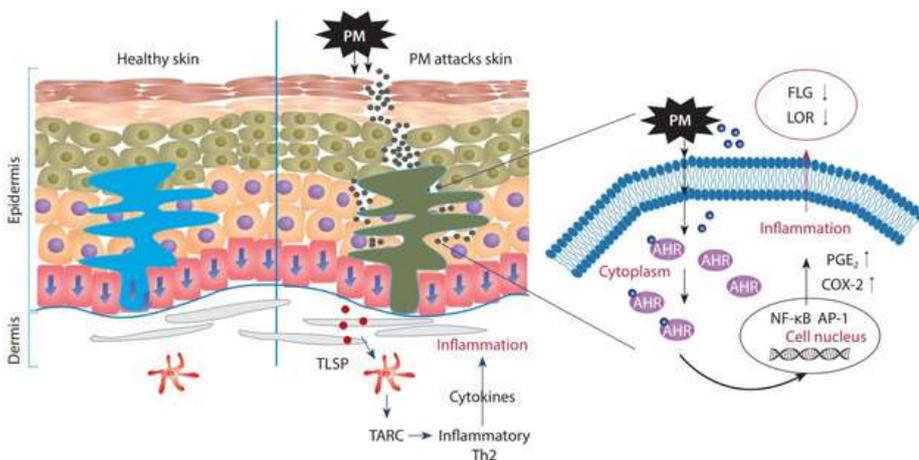
# PHYTOMARINE AEGIS

## DOUBLE ACTION SHIELD

**CHEMIR S.A.** has developed the ultimate active against pollution and its effects on skin.

The polluting particles (PM), composed of organic chemical acids and heavy metals, penetrate the skin by diffusion activating certain metabolic responses that have different negative effects:

- Oxidative stress.
- Inflammatory effect.
- Damaged cutaneous barrier
- Greater sebum secretion.
- Decrease skin pH.



\* Diagram of the metabolic pathway activated by the polluting particles.

## PROPERTIES

- Anti-inflammatory
- Cutaneous barrier improvement
- Moisturizing
- Reinforcement cell cohesion

## ANTI-POLLUTION

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# COMPOSITION

## ANTI-POLLUTION SHIELD DOUBLE ACTION



### PROTECTION

PHYTOMARINE AEGIS incorporates glycosaminoglycans in its formula to provide moisturizing, reduce cell damage and create a keratinocytes binding improvement providing greater protection to the skin.



### REPARATION

PHYTOMARINE AEGIS incorporates the plant bioactives to repair the epidermal barrier by inhibiting the proinflammatory mediators released due to the contact of polluting substances with our skin.

# EFFICACY

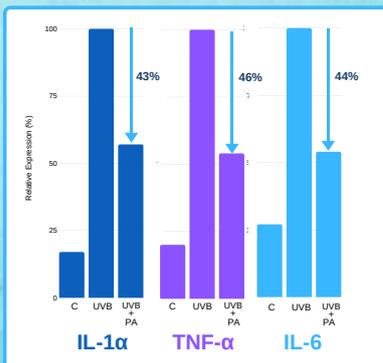
Available tests  
**PHYTOMARINE  
AEGIS**

PROTECTION

REPARATION

Barrier effect (FLG, LOR)  
Moisturizing Action (TEWL)  
Cellular Protection (microscopy)  
Anti-inflammatory (Ahr, COX-2, PGE-2, IL-1 $\alpha$ , TNF- $\alpha$ , IL-6)  
Anti-irritant (Protection against cell damage: redness and texture)

in vitro

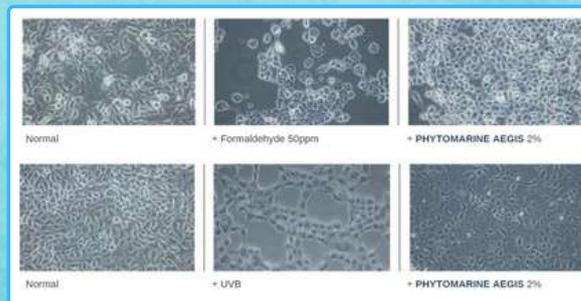


**PHYTOMARINE AEGIS** presents anti-inflammatory activity.

IL-1 $\alpha$  and TNF- $\alpha$  are cytokines that are involved in the inflammation process.

IL-6 is a key mediator for the "acute-phase response" of the inflammatory process.

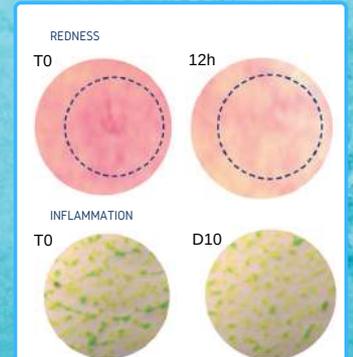
in vivo



**PHYTOMARINE AEGIS** improves cellular protection of the skin.

The cultures of HEKa are subjected to harmful agents that allow to visualize a deterioration in the skin.

With the application of **PHYTOMARINE AEGIS**, we not only recover the previous skin appearance, we increase its viability and cellular association to provide greater protection.



**PHYTOMARINE AEGIS** improves the appearance of the skin.

The appearance of the skin improves considerably after the application of **PHYTOMARINE AEGIS**. A relief of irritation and a smoothing effect can be observed. The skin has been treated with an irritant (SLS 1%).