

**Chemir s.a.**

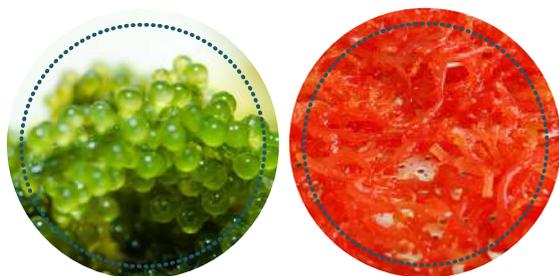
# PHYTOMARINE DETOX

## REPARATING POWER OF THE SEA

**PHYTOMARINE DETOX** is the new active coming from sea water enriched with minerals and microalgae. Originated in Caribbean and Philippine sea.

Studies shown its excellent moisturising power and its good response in inflammatory skin processes.

**PHYTOMARINE DETOX** is a product especially indicated for mature skin, and is general as a complement for anti-aging treatments.



## PROPERTIES

- Improves the moisturising effect
- Fortifies the basal layer
- Ability to penetrate the inner layers of the skin
- Inhibits neurotransmitters responsible for the inflammation process

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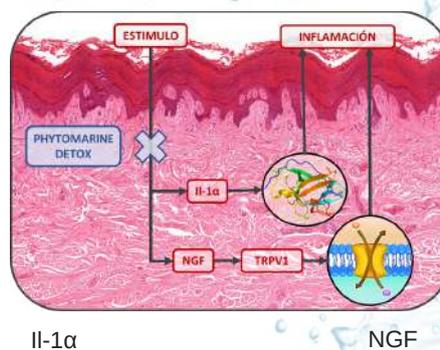
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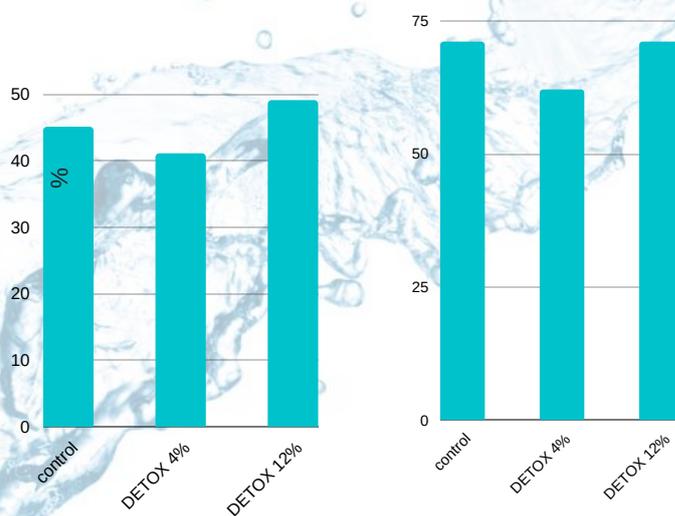
## in vitro

The active ingredient is notable for its excellent ability to inhibit neurotransmitters responsible for the inflammation process (IL-1 $\alpha$  and NGF):

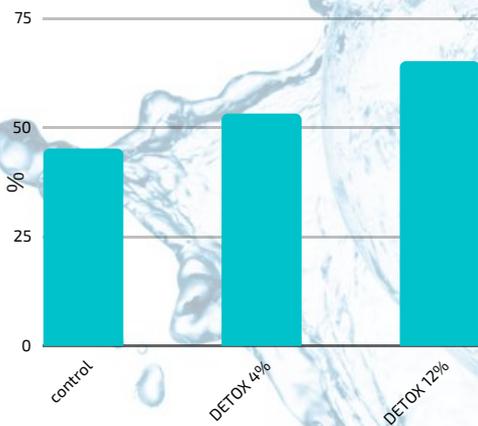
## Inhibits inflammatory response



The active ingredient was added to a culture of keratinocytes after the addition of substances, such as TPA, which promote inflammation. Then, the production of proteins such as NGF and IL-1 $\alpha$  were quantified and compared with anti-inflammatory proven products as a control.



## Penetration in the epidermis



Reconstructed epidermis was treated with TPA to elicit an inflammatory response. Two different doses of PHYTOMARINE DETOX were added after to the reconstructed epidermal tissue. Finally, the concentration of proteins that causes the inflammatory effect, that have been synthesized by keratinocytes, was quantified, in order to quantify the reduction due to PHYTOMARINE DETOX.

## in vivo

In vivo studies were conducted with 46 volunteers using double-blind trials.

**PHYTOMARINE DETOX** proved a significant reduction in the Capsaicin detection, an irritant substance, compared to placebo both 14 and 28 days after the start of the study.

These studies demonstrate the effectiveness and detoxifying capacity of **PHYTOMARINE DETOX**.

## Skin Sensibility Reduction

