

# COBIOAGE

## Skin Redensifyer

### INCI NAME:

Propanediol, Aqua (Water), Caesalpinia Spinosa Fruit Extract.

### DOSE OF USE:

0,5 - 5 %

### SOLUBILITY:

Hydrosoluble

### PRESERVATIVE:

Preservative free

### COSMETIC USE:

- › Protects from skin aging exposome
- › Redensifying activity
- › Anti-aging, anti-wrinkle and firming
- › Protection of collagen, elastin and hyaluronic acid
- › Anti-pollution
- › Antioxidant
- › Anti-glycosilation & Anti-lipid peroxidation

### DESCRIPTION:

**COBIOAGE** is an **extract** from the pod of the **Caesalpinia spinosa**, a **native tree** from **Peru**.

Also known as **Tara**, or **Peruvian carob**, it is a rich source of **bioactive compounds**: Flavonoids, polyphenols and tannins; with a very powerful **anti-oxidant, firming and anti-aging activity**.

Recently, the term **exposome** has been defined as to all external exposure factors, with their interactions, that we face as humans during our life. It includes the body responses to those factors, most of them leading to clinical and biological signs of **skin aging**.

Among these factors are solar radiation (UV, visible and IR), environmental pollution, tobacco smoke, temperature, nutrition and others.

Solar radiation triggers the increase of ROS levels (reactive oxygen species), generating oxidative stress, which induces lipid peroxidation, mitochondrial and DNA damage and protein glycosylation (changes in the structure and function of proteins).

In addition, high levels of ROS also activate the extracellular matrix metalloproteinases (MEC), such as elastase, hyaluronidase and collagenase.

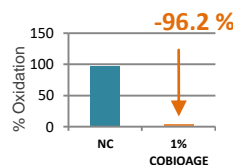
**COBIOAGE** brings a **broad spectrum action**, giving cosmetic formulas versatile efficacy, essential to meet the current demand presented by the skin aging exposome.

### PROPERTIES:

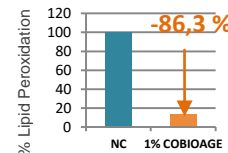
- **Redensifying, anti-wrinkle, and firming:** Due to its ability to inhibit hyaluronidase and collagenase, and thanks to its elastin stabilizing effect and its ability to induce collagen synthesis.
- **Anti-aging, photoaging and anti pollution: protection:** Thanks to its anti-oxidant capacity and protection against ROS damage, its protective effect against lipid peroxidation and protein glycosylation.
- **Improves skin morphology, firmness and elasticity:** Decreasing the SLEB band and improving the sub-epidermal density:



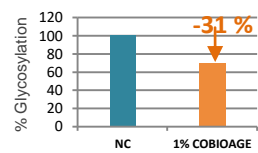
#### % Anti-Oxidant capacity



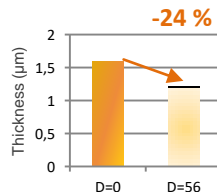
#### % Anti-Lipid peroxidation capacity



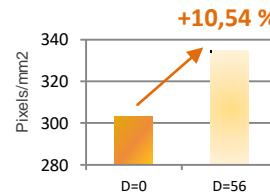
#### % Anti-Glycation capacity



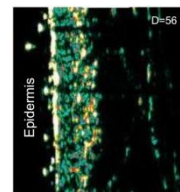
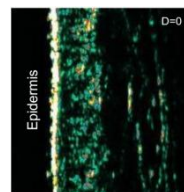
#### SLEB Band Reduction 40-60 years old group D0-D56



#### Sub-epidermal density improvement 40-60 years old group D0-D56



The **SLEB band** presence is a **marker of skin aging**. **3% COBIOAGE** reduced the SLEB band **-24%** improving the skin density **+10,54 %**.



SLEB Band

**Ultrasonography** showing a decrease in the SLEB band, an improving in the sub-epidermal density and therefore in the skin morphology.

N a t u r a l l y E f f e c t i v e