Powerful multifunctional regenerator

DRAGON'S BLOOD

COBIOSA
NATURALLY EFFECTIVE

DRAGON'S BLOOD is an extract obtained from the latex of the Croton lechleri tree, with multiple beneficial properties for skin care treatments.

Its main components are: **Proanthocyanidins, Taspine and Lignans.**

It stands out for its **powerful regenerative capacity** and **anti-free radical activity**. Thanks to its epigenetic activity, it acts at the microRNA level and **targets 10 of the 12 Hallmarks of Aging**, addressing multiple biological mechanisms involved in skin aging.

It promotes **fibroblast proliferation and migration** and provides **anti-inflammatory, anti-aging and anti-pollution effects**, while improving the skin barrier and acting as a natural moisturizer.

Approved by ECOCERT RAW MATERIAL
COSMOS APPROVED

NATURAL ORIGIN CONTENT 100% ISO 16128

VEGAN INGREDIENT

INCI
Propanediol, Aqua (Water), Croton lechleri resin powder

DOSE OF USE
3-5%

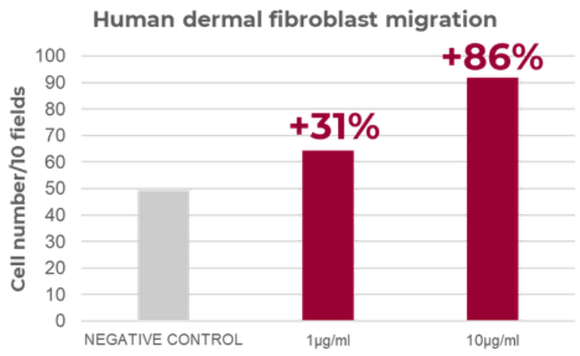
SOLUBILITY
Hydrosoluble

EFFICACY TESTS

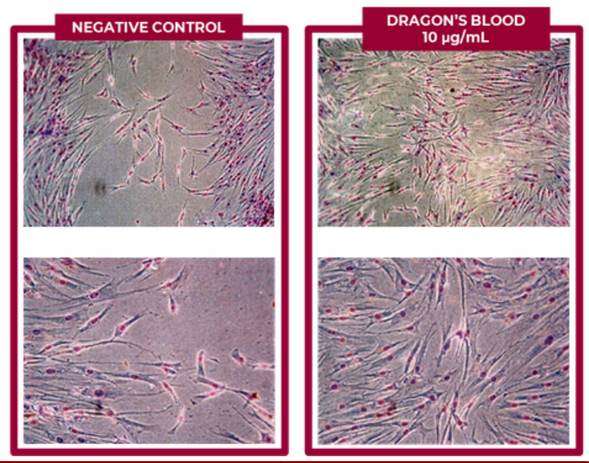
IN VITRO — SKIN REGENERATION

1/10 µg/ml **Dragon´s Blood** — 48h — **SCRATCH TEST** Human dermal fibroblasts

Evaluation of human dermal fibroblast migration after creating a "scratch" or artificial gap in a confluent monolayer of cells grown on a culture dish.



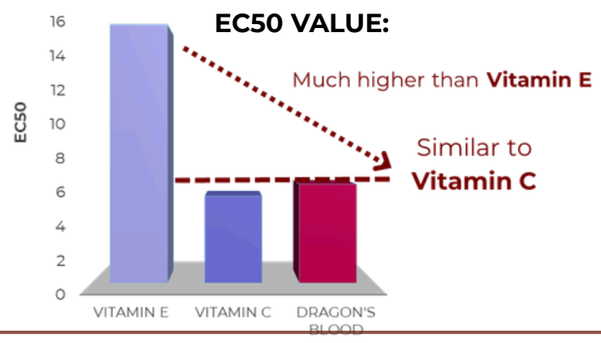
Dragon's Blood produces a **significant increase on human dermal fibroblast proliferation and migration** in an attempt to fill the wounded area in just 48h.



IN VITRO — ANTIOXIDANT ACTIVITY

Dragon´s Blood vs. Vit C & Vit E — **SPECTROPHOTOMETRY** DPPH + Active ingredient

Evaluation of **anti-oxidant activity** measuring the **reduction of DPPH** by absorbance decrease using a spectrophotometer.



EC50 VALUE:
CONCENTRATION NEEDED TO QUENCH 50% OF THE TOTAL QUANTITY OF DPPH RADICALS

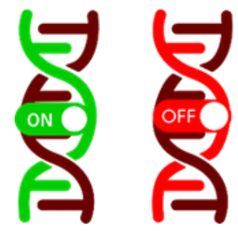
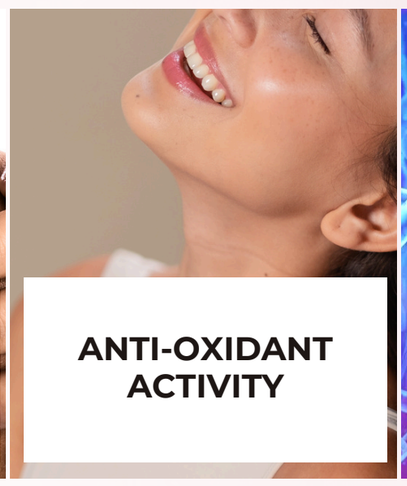
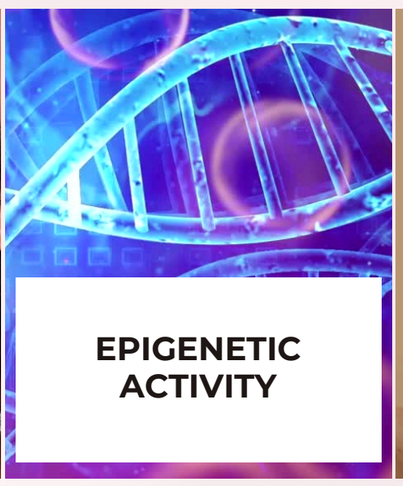
Dragon's Blood shows an **important anti-oxidant activity,** which is similar to vitamin C and much higher than vitamin E

IN VITRO — EPIGENETIC ACTIVITY

1 µg/ml **Dragon´s Blood** — **Expression of key miRNAs** Human keratinocytes

Evaluation of the capacity of Dragon's Blood to **modulate the expression of key miRNAs** and genes.

- **Skin healing and regeneration:** stimulates genes that participate in the structure of the epidermis (FRK) and in the skin's healing process (WNT4 y NRG4).
- **Anti-inflamm´aging:** inhibits the expression of pro-inflammatory substances reducing the relative expression of IL1B, IL6 and PTGS2.
- **Anti-pollution:** stimulates cell detox increasing the expression of GPX2, ALDH3B1 and NRG4.
- **Barrier function:** stimulates the synthesis of TLRs improving the barrier function of the skin.
- **Natural moisturizer:** stimulates the synthesis of the AQP3 gene encoding for Aquaporin3.



Marketing Claims