htl BIOTECHNOLOGY

Feel the *difference* with HTL Inside

PREMIUM QUALITY
SODIUM DNA

A natural biopolymer

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45 Years of Expertise in DNA production

BEYOND TOGETHER

htl BIOTECHNOLOGY

BENEFITS OF SODIUM DNA

Sodium DNA leaves a significant **anti-ageing** effect on the skin:

- effective on lines and deep wrinkles
- effective against UV-induced damages

Properties for skin care

- **Increase elasticity and density of the skin** by promoting viability and proliferation of fibroblasts, and the regeneration of the extracellular matrix
- **Improve skin hydration** by retaining water molecules
- **Reduce skin damages caused by UVA and UVB**

In cosmetic formulations

- Regenerating mask, serum, cream
- Repairing cream
- Oral Care treatments

Recommended dosage in the finished product
0,25 to 2%

OUR SODIUM DNA IS AVAILABLE ALL YEAR ROUND WITH FLEXIBLE MINIMUM QUANTITY OF ORDER

Our Sodium DNA is a **safe** and **sustainable** product for revitalizing the skin

HTL's exclusive production process preserves the original structure of the DNA, resulting in a **high level of purity**

Upcycled salmon **by-product** from a certified and audited source
Natural ressources are preserved

HTL Biotechnology is assessed by EcoVadis
Our manufacturing site is certified ISO 14001

CERTIFIED SUSTAINABLE SEAFOOD MSC www.msc.org

GOLD | Top 5% ecovadis Sustainability Rating APR 2024

ISO 14001

HTL BIOTECHNOLOGY EFFICACY DATA*

Sodium DNA **mode of action**:

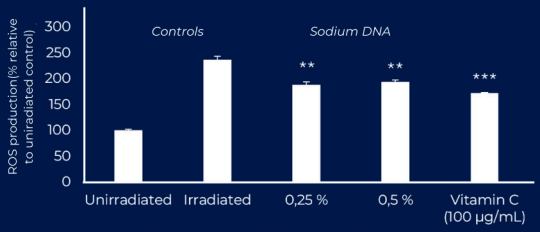
- Leads to higher fibroblasts viability
- Stimulates fibroblasts proliferation
- Increases Pro-Collagen I production
- Reduces MMP-1 activity thus reducing extracellular matrix degradation
- Reduces damages due to UVA and UVB
- Reduces oxidative stress in cells

Cell viability
Hyaluronic Acid synthesis
Pro-Collagen I production

Oxidative Stress
MMP-1 activity
Inflammation

Antioxidant effect

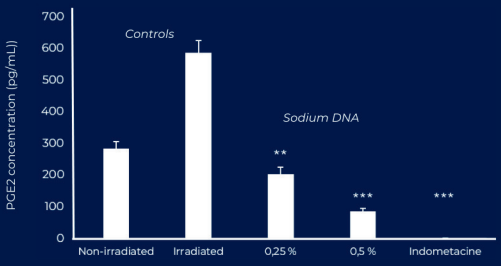
Sodium DNA has an important antioxidant effect, reducing damages caused by reactive oxygen species



ROS production from NHDF fibroblasts challenged with UVA

Anti-inflammatory effect

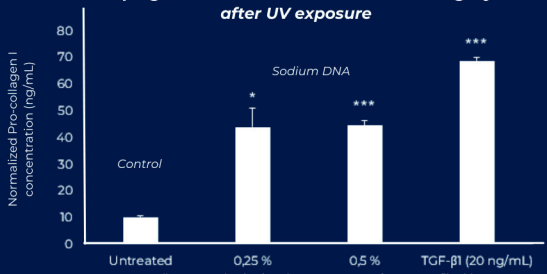
Sodium DNA has an important anti-inflammatory effect, reducing damages due to UVA and UVB



PGE2 production in culture supernatant from NHDF fibroblasts challenged with UVA and UVB

Pro-Collagen I production

Sodium DNA promotes Pro-Collagen I production, helping to restore extracellular matrix integrity after UV exposure



Pro-Collagen I production in culture supernatant from NHDF fibroblasts challenged with UVA and UVB

*all the data come from a study conducted by HTL Biotechnology

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