

HyWhite

Natural derivative of α -linolenic acid and hyaluronic acid



COSMOS



CHINA COMPLIANT



PATENTED PREPARATION

INCI: SODIUM HYALURONATE
AND LINOLENIC ACID



Who We Are

*World leader in research
and manufacturing
of hyaluronic acid.*

*Innovator in biotechnologies
since 1990.*

*Reliable partner of **successful
brands.***



Production of HyWhite in Contipro

Sustainable biotech production

HyWhite is produced by chemical modification of very low molecular weight hyaluronic acid with α -linolenic acid. Our HA is made by fermentation of a non-haemolytic microbial strain *Streptococcus equi*.

Environmental friendly production

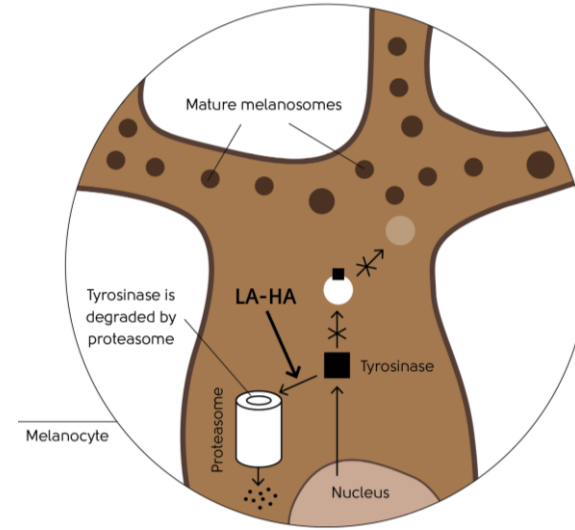
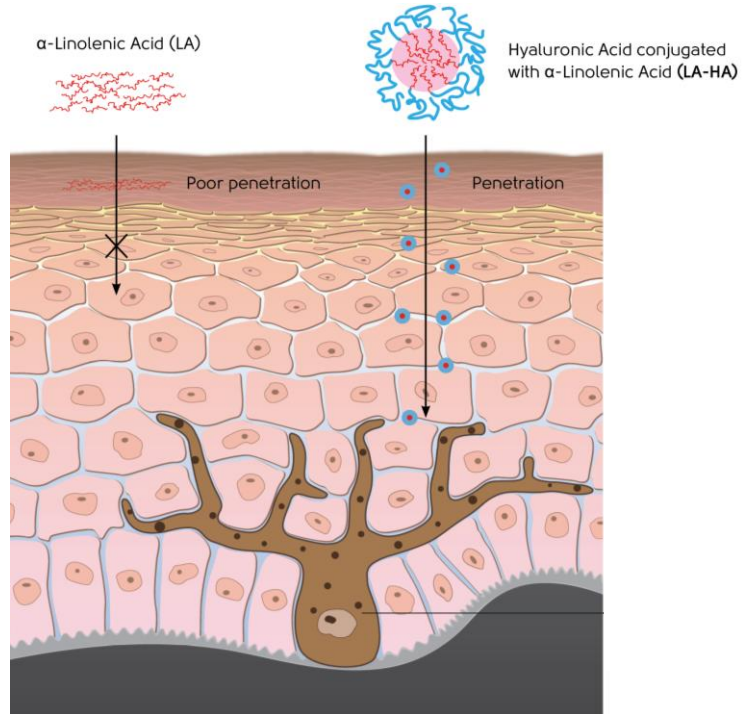
- Everything we make is **biodegradable**.
- We have our own **solar power plant** and **wastewater treatment plant**.
- Our buildings are **heated with residual energy** from our production operations.

Natural product

Contipro's HyWhite has **natural origin index 1** (according to ISO 16128-1:2016 and 16128-2:2017)



Mechanism of action



- * Hyaluronic acid effectively **delivers α -linolenic acid to the target** – tyrosinase in melanocytes.
- * α -linolenic acid **increases degradation of tyrosinase** – a key enzyme in melanogenesis.
- * It is also a **proteasome activator** – the degradation of tyrosinase occurs via proteasome.

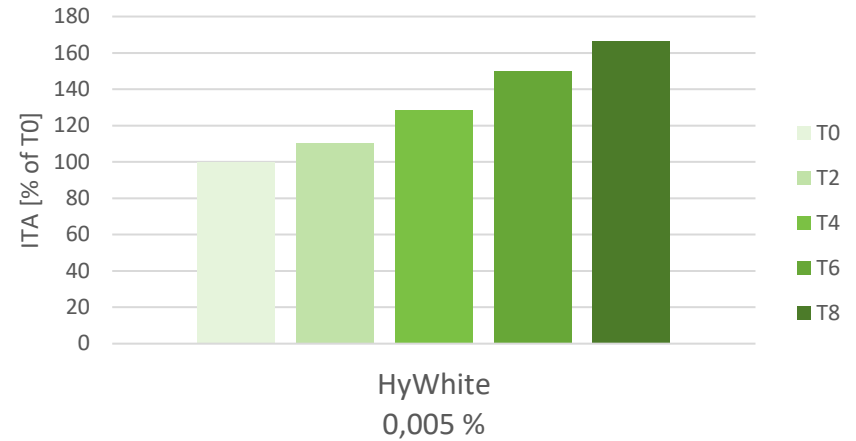


LIGHTENING

66%

LIGHTENING EFFECT

In vivo study by
Intertek - China



HW (0,005%) in emulsion, face, 35 Asian volunteers.
ITA value determined by colorimeter (Courage
and Khazaka electronics)

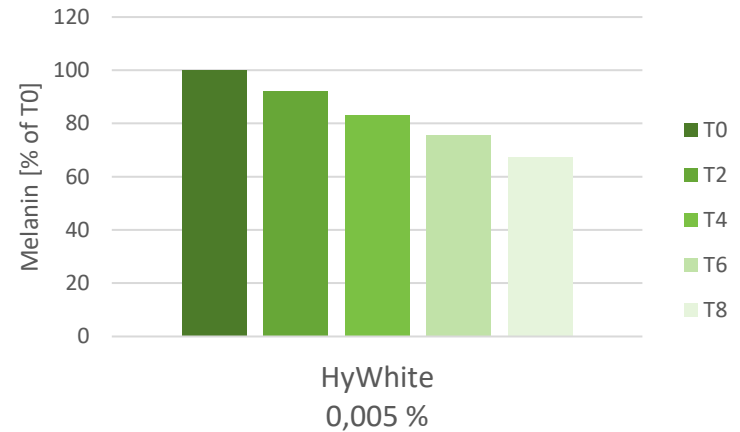


WHITENING

33%

DECREASE IN MELANIN
CONTENT

In vivo study by
Intertek - China



HW (0,005%) in emulsion, face, 35 Asian volunteers.
Melanin content determined by Mexameter
(Courage and Khazaka electronics)

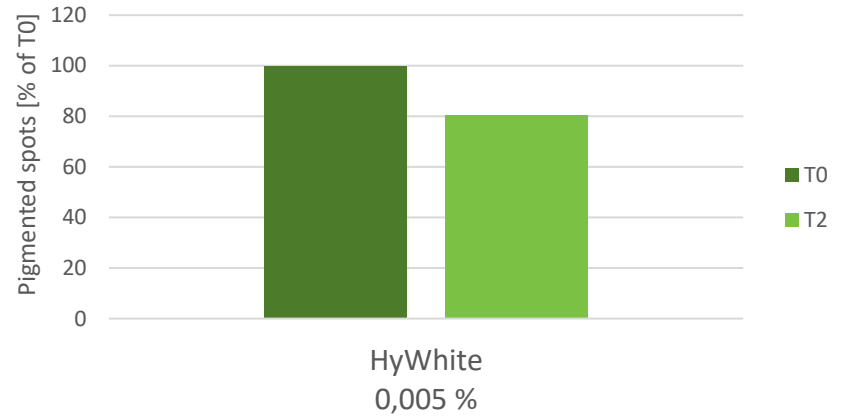


SPOTS REDUCTION

20%

REDUCTION OF PIGMENTED SPOTS

*In vivo study by
Contipro*



HW (0,005%) in emulsion, face, 15 Caucasian volunteers.
Number of pigmented spots determined by Visioface

Before

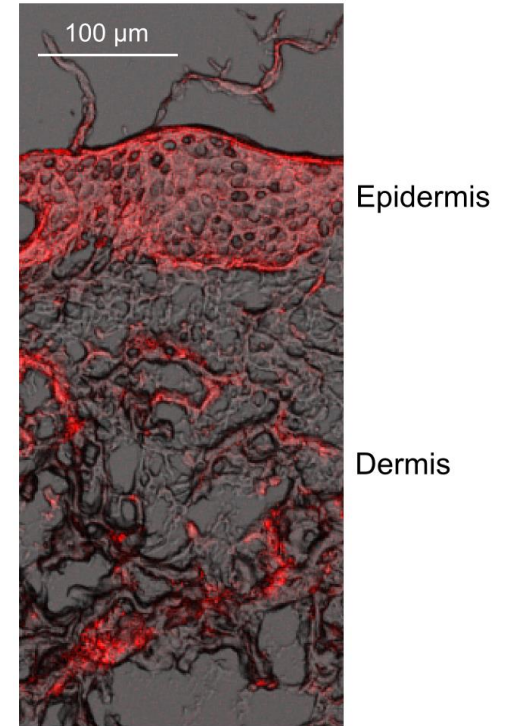


Pigmented spots reduction after 2 weeks of daily treatment with 0,005% HyWhite



Additional advantages of HyWhite

- * Effectively penetrates the skin
- * Improves skin colour uniformity
- * Effective both in Asian and Caucasian type of skin
- * Increases cell metabolism and energy production
- * Stronger capacity to bind to the skin, it is not washed off easily as unmodified HA



penetration - Franz diffusion cells, 24h at 37°

HyWhite: Collected technical data

- **INCI name:** Sodium Hyaluronate and Linolenic Acid
- **Supplied form:** powder
- **Samples:** 1 g
- **Minimal ordering quantity:** 1 kg
(If ordering smaller quantities, price can increase due to handling fees)
- **Recommended concentration in final products:**
0.005 – 0.01 % of powder
(safety tests up to 0,4%)
- **Shelf-life:** 24 months
- **Source:** HyWhite is produced by chemical modification of low molecular weight hyaluronic acid with α -linolenic acid. Hyaluronic acid is obtained by fermentation, α -linolenic acid is from a plant source.
- **Compatibility and processing:** Sensitive to heat and high humidity; avoid prolonged heating (heating over 60 °C for 60 min can lead to a decreased degree of substitution and degradation by oxidation). Extreme pH (less than 4 or more than 10) leads to further decomposition. Incompatible with cationic substances, e.g. surfactants or polymers (polyquarternium-4, polyquarternium-10, etc.)
- **Solubility:** Fully soluble in water; soluble in aqueous mixture of ethyl alcohol and isopropyl alcohol.



We Are Here to Help You

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