

Levan

A natural, anti-aging humectant

Levan is a safe & effective, clinically tested natural polysaccharide-ingredient. It is a stable, cost-effective solution for topical skin-care products aiming to deliver a deep moisturizing effect. It reduces wrinkles, prevents TEWL, and restores skin vitality. Levan can be used as an alternative to hyaluronic acid, or can be blended with significantly reduced HA dosages, in order to maximize efficacy, maintain marketing themes AND increase the manufacturer's profit.



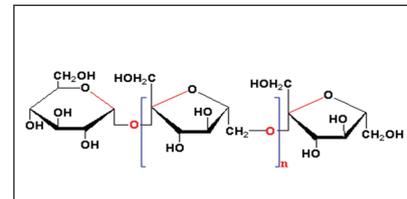
ACTION

Film forming and hydrating agent.



ORIGIN

Levan is a natural bio-polymer (fructan polysaccharide) derived from an enzymatic reaction on fruit sugars.



Levan-
2,6 bonds



DESCRIPTION

Levan appears as an aqueous, whitish solution. It contains Levan fiber, sugars (mainly glucose), and water. Its unique combination of molecular weights promotes permeation of active component into the epidermis, cell proliferation and a film forming effect. Levan contributes to improvement in skin hydration, wrinkle-softening, line-smoothing, and overall healthier and more vital appearance. Levan is stable in cream/gel applications, and can be used in leave-on or rinse-off products.



MECHANISM

Permeation of low weight molecules enriches cells, while retention of water is supported via film formed by high weight molecules.



COSMETIC BENEFITS

Moisturizer, Anti-Aging ingredient.





APPLICATIONS

Levan can be used in a wide range of skin care applications for body, eye or face:

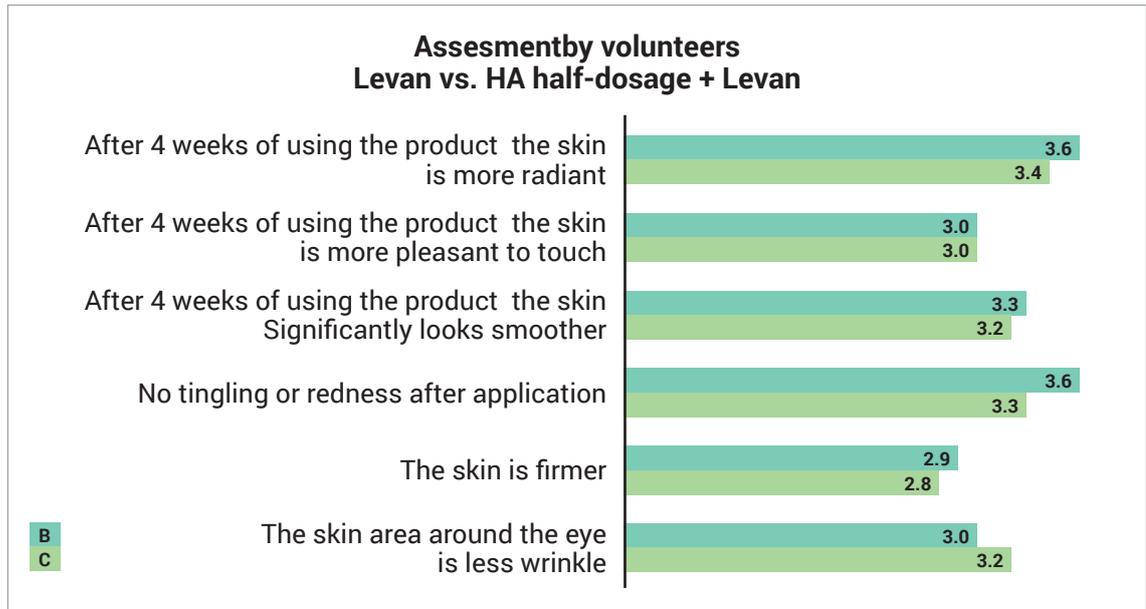
- Creams / Gels, intended for Anti-Aging/moisturizing care
- Sun Protection, or After-Tan products
- Feminine / Vaginal wash
- Skin-soothing products, intended for post home-aesthetics treatments
- Skin-care products intended for firming and elastic appearance



CLAIMS

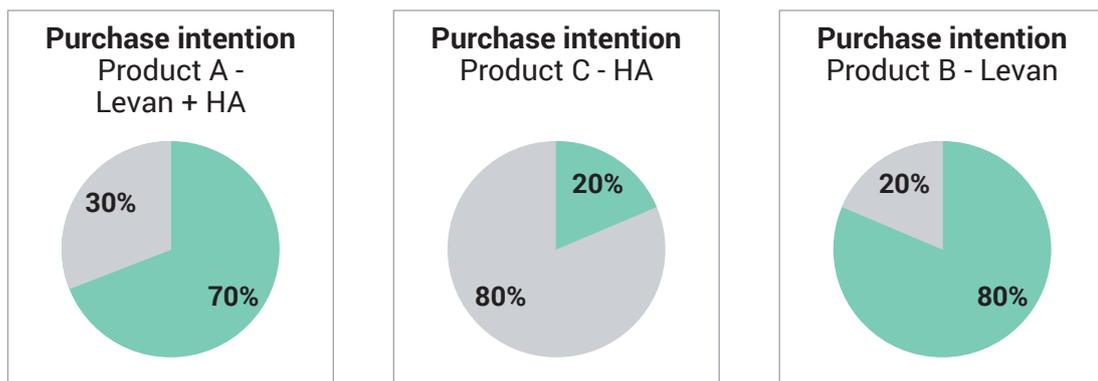
In a double-blind clinical trial among female participants (conducted by The Israeli Institute for Skin Research), Levan achieved better assessment results than HA when asked about Purchase Intentions and Wrinkle Improvement after 1 month's use.

Body cream Group-B (Levan 1.6%) vs Body cream Group-C (HA 0.2%)



Purchase Intentions

Body cream Group-B (Levan 1.6%) vs Body cream Group-C (HA 0.2%) vs Group-A (Levan 0.8% + HA 0.1%)



Yes
No

**double-blind assessment by volunteers
Levan alone vs. HA half-dosage + Levan vs. HA alone**





COST EFFICACY

When used as a substitute for HA, Levan delivers similar or better moisturizing effects as (at similar dosages) - with highly competitive pricing. Alternatively, it also stably performs in blends with HA, allowing brands to reduce HA dosages in their formulations – replace with Levan and achieve better value while maintaining marketing themes associated with HA.



ADDITIONAL BENEFITS

- Levan is suitable for a wide range of applications. It is stable in formulation, has a neutral color in formulation and has a pH value of 5.5.
- Levan is 100% natural & non-GMO, and derives from a traceable GMP supply chain.
- Levan is dermatologically tested and suitable for sensitive skins. It is non-irritable even at concentrations of up to 10% in body cream formulations, and as an ingredient in direct contact with skin.
- INCI registered – also in China.



SAFETY

- Levan is manufactured under strict GMP conditions using non-GMO enzymes supplied by a certificated European enzyme company.
- CAS Number (cosmetics): 9013-95-0
- INCI name / 28-30% Levan: Levan/Fructose/Glucose/Sucrose (and) Citrate Buffer
- Composition: Levan fiber, sugars, buffering agent, potassium sorbate.