

Soliance - Vegetan Premium

Smart self-tanner



Givaudan

engage your senses



Vegetan Premium Smart self-tanner

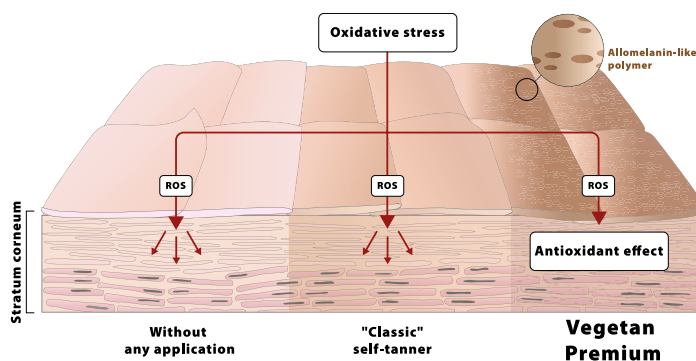


Vegetan Premium is a combination of dihydroxyacetone (DHA) obtained by biotechnology and an allomelanin-like polymer. Vegetan Premium is the first active self-tanner with optimized performances and antioxidant properties. It delivers a more natural, deeper summer tan to the skin while protecting it from oxidative stress.

Sunless tanning mechanism

Vegetan Premium generates a harmless skin coloring through two complementary activities:

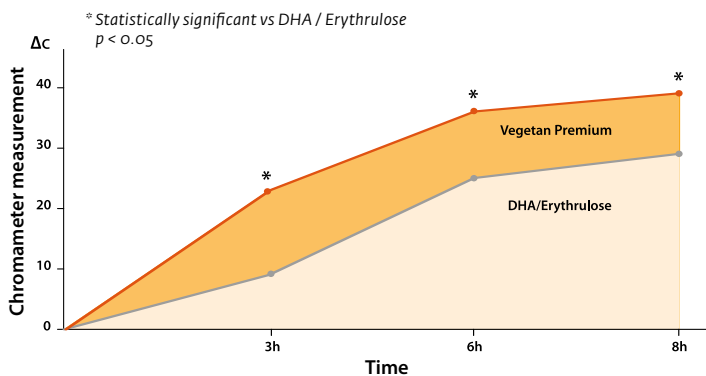
- ◆ DHA reacts with amines, peptides and amino acids of the *stratum corneum*, producing brown melanoidins.
- ◆ The allomelanin-like polymer improves the skin coloration obtained with DHA by interacting with the corneocytes. It also protects DNA from oxidative damage.



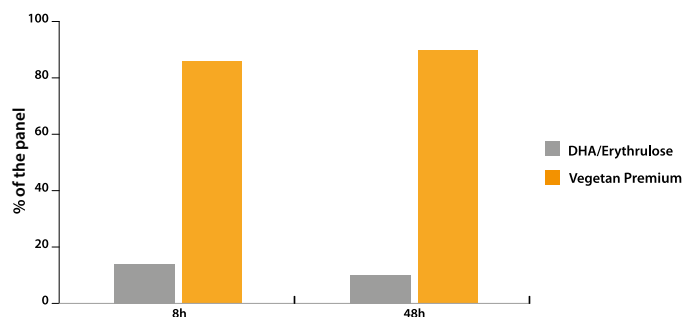
Self-tanning activity (In vivo test)

A panel (20 volunteers, phototypes I and II) applied on the forearm area two self-tanning creams formulated with Vegetan Premium 5% or DHA 5% + Erythrulose 2.15%. Color intensity was assessed through Chroma measurement (C). The panel compared the natural aspect of the tanning for Vegetan Premium and DHA/Erythrulose (double blind test).

Kinetics of skin coloration



Tanning quality



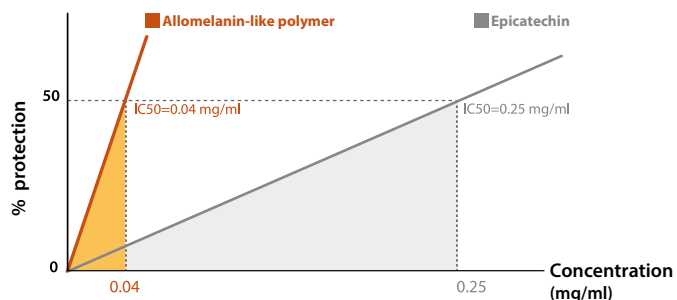
Vegetan Premium significantly improves color intensity and increases speed of coloration.

Vegetan Premium visibly induces the most natural looking tan.

Antioxidant activity (In vitro test)

Cell cultures were treated with the allomelanin-like polymer or epicatechin (antioxidant positive control) and H_2O_2 was added. The antioxidant activity was assessed through IC_{50} measurement.

Vegetan Premium protects DNA from oxidative stress thanks to its antioxidant properties.



INCI name: Dihydroxyacetone (and) Melanin.

Preservative: None.

Dosage: 2% to 15% | **Form:** powder | Hydrosoluble

Cosmetic applications: Self tanning creams, lotions and sprays, glowing products in association with other cosmetic ingredients.