



Lighttime®

A natural lightening active
ingredient



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**Why do hand palms and foot soles are lighter
than the rest of the body skin?**



An universal physiological observation, a biomimicry approach.

a Natural Lightening Active Ingredient



Function: lightening active ingredient

Nom INCI: Bentonite & Balanites roxburghii seed extract

Renewable Botanical origin: seed

Geographic origin: Intertropical Africa (Burkina Faso)

Available forms: powder preservative free

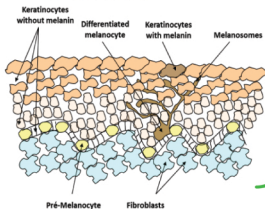
Identity Card



Desert date seeds

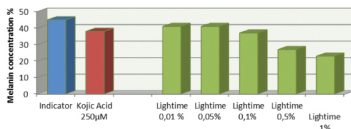
In vitro Analysis

- Lighttime® strategy:** physiological regulation of melanogenesis by modulation of DKK1 and DKK3 expression in fibroblasts.
- Natural skin de-pigmentation**
 - Melanosomes disappear and keratinocytes did not receive any more melanine
 - Increasing DKK1/DKK3 ratio, melanocyte differentiation and melamine production are dramatically reduced



- A greatly enhanced performance compared to kojic acid**

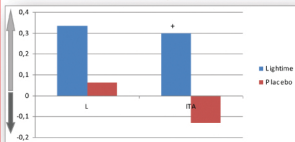
Incubation mediums, influenced by Lighttime®, inhibit melanogenesis in a dose-dependent manner



In vivo Analysis

Human *In vivo* study on 15 subjects tested under dermatological control. Double-blind half-face versus placebo study at 28 days

A convincing and statistically significant lightening effect at 28 days



Whitening effect

Tanning effect

L = Luminance

ITA = Whitening effect