

# nightessence™ biofunctional

who sleeps like a princess, and awakens with beautiful skin?

premium true lavender flower extract for skin night-time reset

INCI: Butylene Glycol (and) Water (Aqua) (and) Lavandula Angustifolia (Lavender) Flower Extract

## key features and benefits

helps skin boost essential nocturnal molecules associated with night repair, night detox and cleanse, and night renew

- timezyme the good night enzyme
- melatonin, the clean sleep molecule
- nocturnin, moonlighting cleansing enzyme

### night repair of daily damages

- limits dark DNA damage (dark sun effect)

### night detox & cleanse for visible skin renew

- detox: reduces formation of oxidant species induced by visible light
- renew: epidermis appears thicker and restored in a 3D model stressed by visible light (data available)
- cleanse: mRNA quality control & removal by nocturnin

### overnight skin reset evaluation on Caucasian and Asian skin — visible effect on night workers' skin

- a rapid effect in just one night with long term results in 3 and 4 weeks
- skin looks rested, renewed, illuminated with less dark circles after 28 days of application of a cream containing nightessence™ biofunctional at 1 percent

### hair night reset

- nightessence™ biofunctional at 0.5 percent increased, *in vitro* in hair follicle, melatonin expression described to promote hair anagen phase (*in vitro* data available)



## description

Nightessence™ biofunctional from Ashland's Vincience laboratories is the first biofunctional of its kind tailored to optimize skin's nighttime needs. Made in France from locally sourced high quality *Lavandula angustifolia* grown in the heart of Alps of Provence mountains, it is a natural extract using Ashland patented and proprietary Plant Small RNA technology (PSR™).

- rich in plant small RNAs and 23 phytonutrients such as AHAs and polyphenols
- eco-consciously designed from field-to-skin
- inspired by the beauty sleep trend
- enhances essential nocturnal processes and molecules for a night repair, night detox and cleanse, and night renew
- clinically tested on night workers

## formulation ideas

- dreamy renewing butter (#100-10107D)
- resetting lunar mask (#100-10114B)
- counting sheep melting butter-in-gel (#100-10164)
- beauty sleep gel cream (#100-10165)

## technical information

- recommended use level: 0.5 percent to 1 percent
- plant-based butylene glycol (sugarcane derived)
- does not contain preservatives
- Cosmos® validation pending
- ISO 16128 natural origin 100%
- listed on China IECIC, IECSC

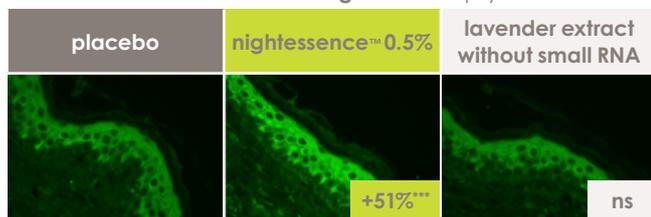
## 23 phytonutrients identified applying Ashland's Plant Small RNA Technology PSR™



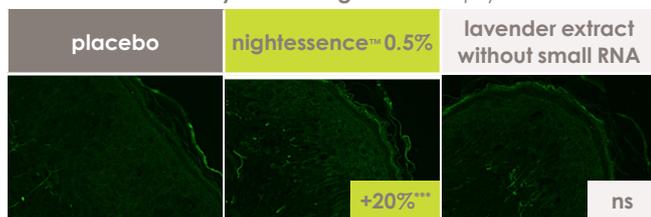
nightessence™ biofunctional optimizes skin's nocturnal processes linked to night repair, night detox and cleanse, and night renew

### 1 — essential nocturnal molecules

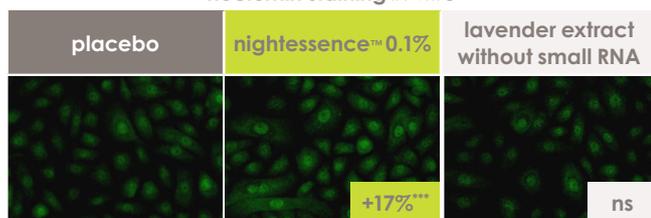
melatonin staining on skin biopsy



timezyme staining on skin biopsy



nocturnin staining *in vitro*

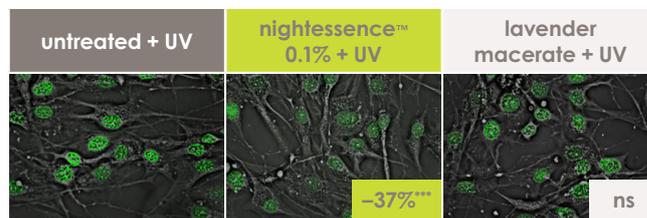


mean +/- sem; n=3

\*\*\*: highly significant, ns: not significant, na: not applicable with student's t test compared

### 2 — night repair

generation of dark DNA damage in melanocytes, induced by UV irradiation, was visibly decreased following the application of nightessence™ biofunctional

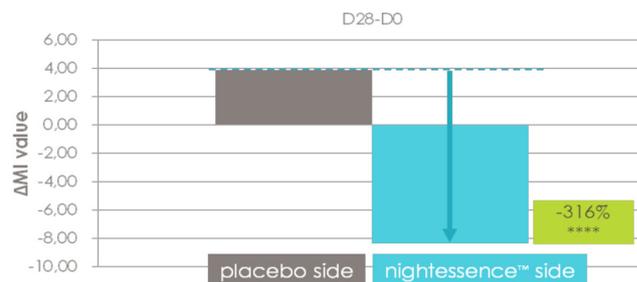


### 3 — overnight skin reset evaluation on Caucasian and Asian skin – skin looks rested, renewed and illuminated with less dark circles by morning

A clinical study on 36 Asian volunteers who have night shift work or always stay up very late has been carried out. Nightessence™ biofunctional at percent in a cream or a placebo was applied for 28 days. Dark eye circles were evaluated with a Visia-CR and Mexameter.

Seventy eight percent of volunteers have seen an improvement on the side treated with the cream containing Nightessence™ biofunctional at 1 percent.

figure 1: dark eye circle improvement results (Melanin Index Value)



\*\*\*\*: extremely significant, p<0.001



subject 008, male, Age 43

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