

calisensix™

CALM YOUR SKIN,
ENJOY YOUR SENSES



Resolving
sensory overload



Soothing
hypersensitivity



Enhancing
pleasant touch



LIPOTRUE
GREENBEAT™

○ Recommended dose: 1-2%

○ Solubility: Water soluble

LIPOTRUE Greenbeat™
science & biotechnologies

DESCRIPTION & MECHANISM

Bright lights, loud noises, and crowded areas are just a few stressors that can **overstimulate** our senses. This can result in sensory overload and increased **unpleasant skin sensitivity**

Sensitive skin can be defined as an unpleasant sensory response to normal stimuli that affects our **self-perception**. Objective irritation tests do not always detect sensitive skin so self-perception can be used as an alternative means of identification

Noxious stimuli **sensitize keratinocytes' nociceptors** (e.g. TRPV1) inducing the release of **neuroactive inflammatory substances** that sensitize other cells (e.g. neurons) and produce further inflammatory compounds that create a **neurogenic inflammatory feedback loop**

Calisensix™ is an ingredient obtained from the **bark of white willow** and **tomato**. **Calisensix™** resolves neurogenic inflammation, **soothes discomfort**, and **enhances pleasant sensations** in sensitive skin, both self-perceived and objectively detected

Calisensix™ is your **skin's mindfulness coach** that improves your self-perception. **Calm your Skin, Enjoy your Senses!**

Raw material approved by ECOCERT GREENLIFE, conform to the COSMOS Standard



IN VITRO EFFICACY

Resolving discomfort

sensitive skin inducers used in red



+308% resolvin D2 (TRPV1 inhibitor)

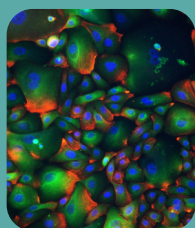


-26% Ca²⁺ inflammatory signaling cascade (*capsaicin*)



-78% SYT1 reducing synaptic vesicles fusion and so inflammatory mediators release (*SLS*)

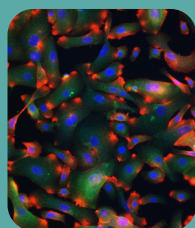
Basal
(SYT1 in green)



-40%*

Synaptotagmin-1

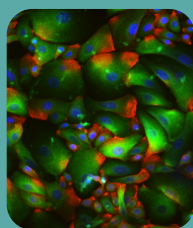
SLS + 1% Calisensix™
(SYT1 in green)



-78%***

Synaptotagmin-1

SLS
(SYT1 in green)



100%

Synaptotagmin-1

Soothing hypersensitivity



-43% PGE2 (*lactic acid*)



-27% CGRP release modulating exacerbation & loop (*capsaicin*, co-culture of HEK & sensory neurons)



+32% MOR activating endogenous relief in the neurons (*capsaicin*, co-culture of HEK & sensory neurons)

Protecting from sensory overload



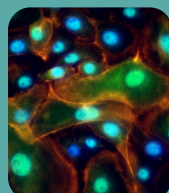
Up-regulation of skin barrier genes

Pleasant touch

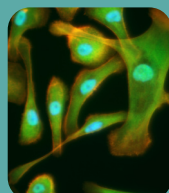


+148% PIEZO1 enhancing mechanosensations

Basal
(PIEZO1 in green)



1%Calisensix™
(PIEZO1 in green)



IN VIVO EFFICACY

Objective sensitive skin (face)

20 women (21-65 years old) reactive to lactic acid applied a cream with **2% Calisensix™** or a placebo on half face, twice daily for 28 days



Up to -20.5% water loss in 28 days

T0 days



T28 days



Objective sensitive skin (body)

20 women (20-66 years old) reactive to lactic acid applied a cream with **2% Calisensix™** or a placebo on the back after an SLS patch test, twice daily for 7 days



Up to **-50% TEWL**
after **30 min**



Up to **-65% erythema**
after **30 min**

Self-perceived sensitive skin (face)

20 women (18-65 years old) non-reactive to lactic acid applied a cream with **2% Calisensix™** on the whole face, twice daily for 28 days



80% felt their skin **less itchy** (7 days)



90% of the **volunteers** said that the **redness** of their skin had **soothed** (28 days)

Calming your skin, enjoying your senses

22 women (23-54 years old) selected through a sensiscale questionnaire applied a cream with **2% Calisensix™** or a placebo on half face, twice daily for 28 days. Unpleasant sensation with a loofah sponge and pleasant sensation with a feather on the cheeks were assessed by electrodermal response



-13.9% discomfort
after **15 min**



Immediate increase of positive sensations