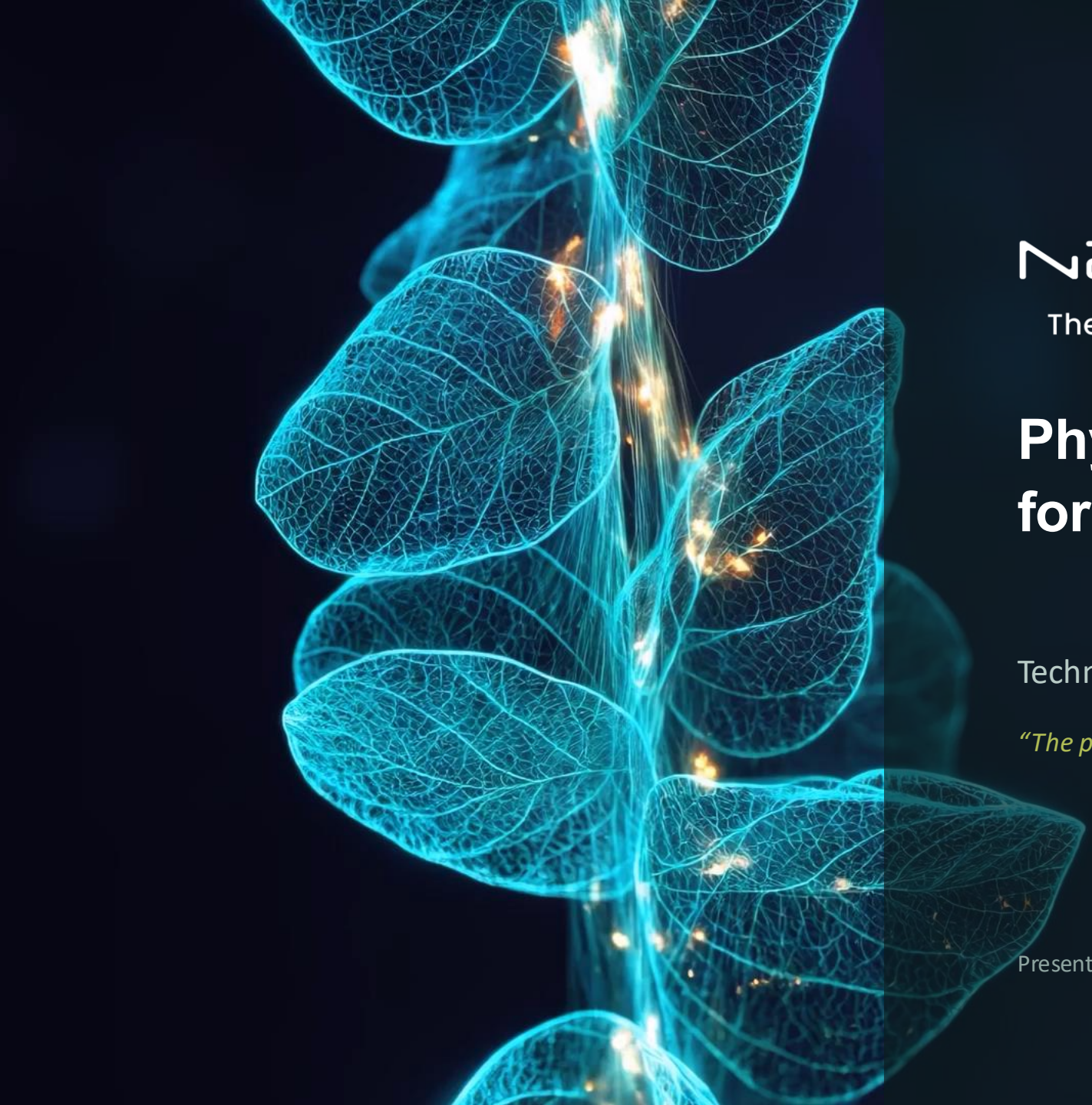

NAEMOS

The plant extraordinary

Phytobiotech actives for augmented performance

Technology & Active Ingredient Portfolio 2026

“The plant extraordinary”

Presented by MC Beauty Science GmbH · Idstein

NAEMOS
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Precision indoor farming & eco-extraction

- Fully controlled cultivation – no pesticides, independent of climate and season
- 100 % reproducible quality – the same active concentration batch after batch
- Eco-extraction without petrochemicals: non-denatured, biodegradable extracts
- Full traceability and resource optimisation – renewable energy, circular resources
- Rigorous substantiation: tested in vitro, ex vivo and in vivo









Research › Cultivation & elicitation › Eco-extraction › Efficacy substantiation › Global commercialisation

NAEMOS
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ELITE™ – Elicitation Technology Platform

Elicitation: the targeted stimulation of a living organism to trigger a defined biological response.



Awaken the best of the plant

- Plants respond to their environment by synthesising specific molecules
- ELITE™ steers this response multifactorially: light spectrum & intensity, photoperiod, climate, redox and microbiota elicitation



Awaken the best of the skin

- Elicited phytomolecules trigger biological responses in the skin
- They amplify the skin's own capacity to defend, repair and regenerate – through defined signalling pathways

x3 – x4 higher concentration of target molecules versus non-elicited plants – while reducing environmental impact.

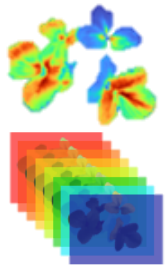
Predicting the phytochemistry

R&D approach in partnership with Farm^3



Elicitation boosts plant growth quality (larger stems and bigger leaves) and amplifies phytomolecule production (more red leaves)

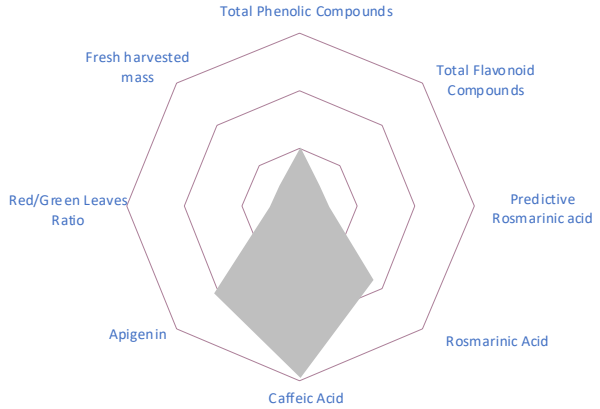
Hyperspectral analysis is a non-invasive imaging technique that measures how each pixel absorbs and reflects light across different wavelengths. When combined with machine learning, it reveals the chemical signature of plants and enables accurate prediction of phytomolecule concentrations.

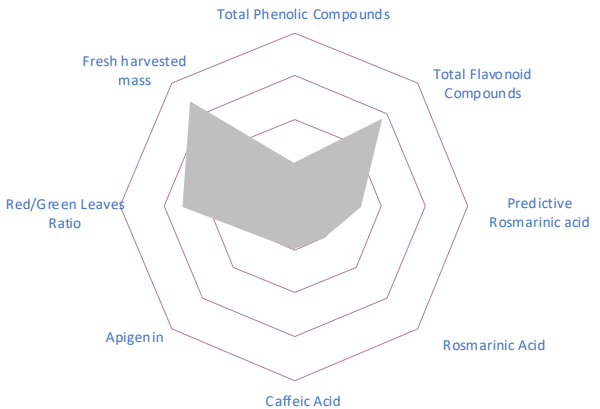


DAY 17

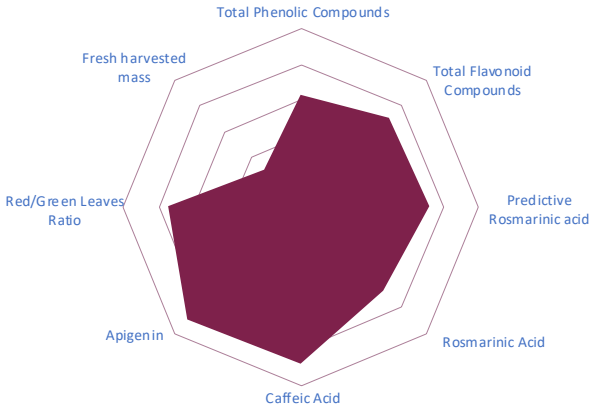
DAY 21

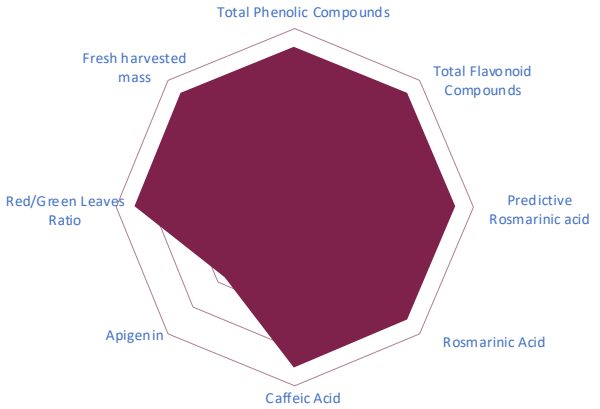
Non-elicitated





Elicitated





x FARM^3

Day 21 was determined as the best harvest moment

NAEMOS
The plant extraordinary

Active ingredient portfolio 2026 – six actives



SHISOME™

Skinome protection for skin resilience

Red shiso · 1 %



SYNATIS™

Mechanosensor rescue for skin neuro-longevity

Isatis tinctoria · 2 %



NIASKIN™

Natural niacinamide for brighter skin and finer pores

Pea microgreens · 3 %



SUNGLOWER™

Reveal glowing skin with sunflower microgreens

Sunflower microgreens · 1 %



SCAPILYA™

Anti-dandruff and scalp health recovery

Starflower microgreens · 1 %



CALMELYS™

Soothing sensitive skin, imparting lasting comfort

Lemon balm · 1 %

NAEMOS
The plant extraordinary

SHISOME™

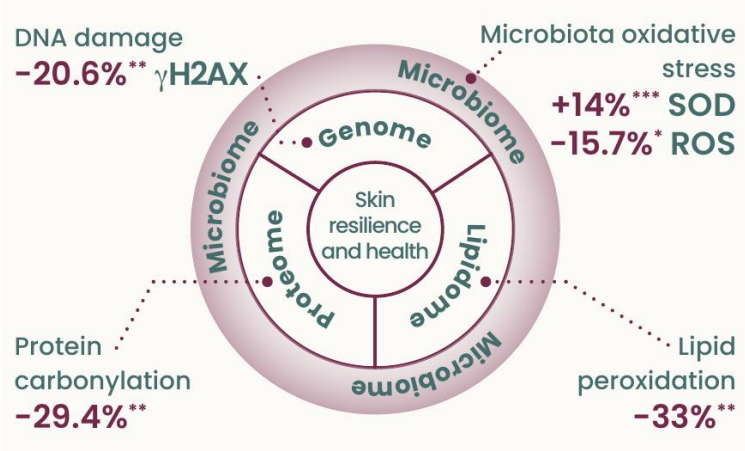
Skinome protection for skin resilience



INCI Glycerin, Water, Perilla frutescens extract
Titrated in rosmarinic acid
Dose 1 %
Extraction microwave-assisted water eco-extraction
ELITE™ x4 rosmarinic acid vs. non-elicited

MECHANISM OF ACTION

Protects the skinome – genome, proteome, lipidome and microbiome – from oxidative stress and reinforces the skin barrier.



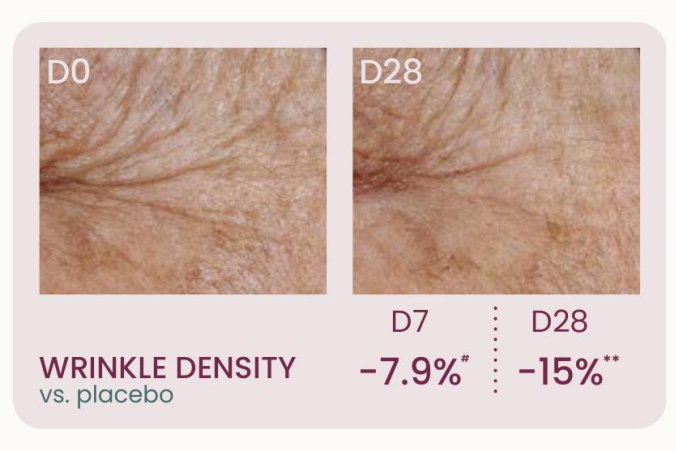
−46.7 % ROS – antioxidant activity

+152.7 % Claudin-1 – skin barrier

+44.6 % Ceramides – skin barrier

CLINICAL RESULTS

35 Caucasian female volunteers · 47–70 y · 1 % cream vs. placebo · twice daily · split-face · 28 days



−15 % wrinkle density (D28)

−18.5 % skin sagging (D28)

+10.6 % hydration

NAEMOS
The plant extraordinary

SYNATIS™

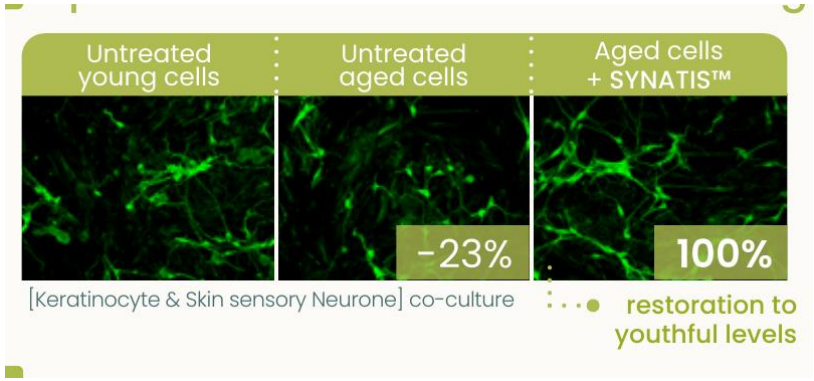
Mechanosensor rescue for skin neuro-longevity



INCI Glycerin, Water, Isatis tinctoria leaf extract
Titrated in sinapic acid
Dose 2 %
Extraction water eco-extraction
ELITE™ x4 sinapic acid vs. non-elicited

MECHANISM OF ACTION

Preserves the neurocutaneous system and skin mechanosensation. Re-expression of eight mechanosensors: PIEZO1/2, TRPV4, TRPA1, ASIC3, TREK1/2, TRAAK.



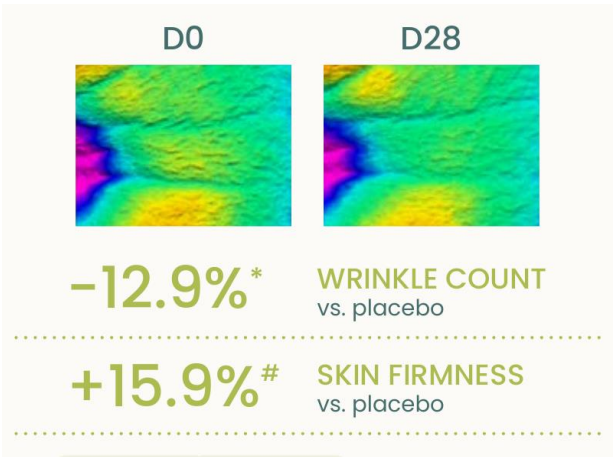
100 % restoration of neurite length

100 % rescue of glutamate release

56 % / 100 % collagen: fibre diameter / orientation

CLINICAL RESULTS

33 female and male volunteers · 47–70 y · 2 % cream vs. placebo · twice daily · split-face · 28 days



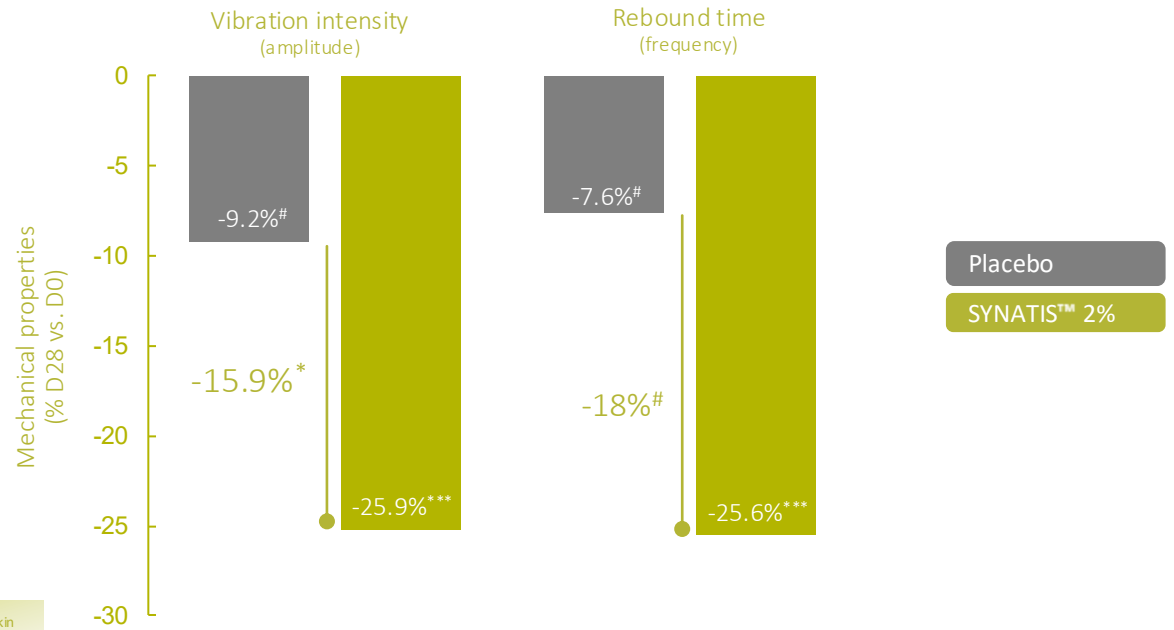
–12.9 % wrinkle count

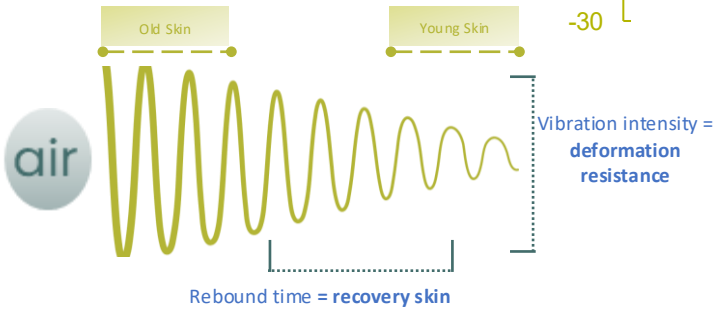
+15.9 % skin firmness

EEG left prefrontal cortex activation – pleasant sensory perception

Improvement of skin mechanical properties

Innovative testing method using air pulse





Air pulse projection deforms the skin, creating waves around the contact area. Firmer skin forms fewer waves, which return to their normal shape more quickly.

Panel

33 volunteers (22 female – 11 male)
(42 to 63 years old – mean 54.9)

Tested formulas

2% SYNATIS™ cream
Placebo

Application

Twice-daily split-face application for 28 days

Measurement

After projection of controlled air pulse (60 km/h), skin mechanical resilience and recovery after deformation using a high-speed camera

Statistical significance

*p<0.05, ***p<0.001 vs. D0 or placebo

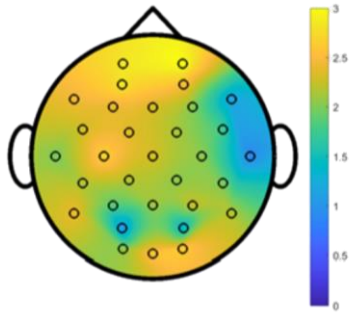
SYNATIS™ improves skin firmness and elasticity

Restoration of skin perceptions

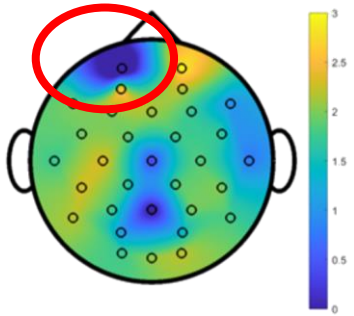
Neurocutaneous signaling activation by EEG(ElectroEncephaloGraphy)

D28

Placebo



SYNATIS™ 2%



- The specific activation of the left hemisphere of prefrontal cortex indicates increased positive sensations.
- Higher activity over occipital and parietal regions indicate a brain state of attention, due to the increased perception.
- SYNATIS™ influence the brain activity by regulating mechano-sensory pathways dynamics from the skin.

Panel

33 volunteers (22 female – 11 male)
(42 to 63 years old) with sensitive skin

Tested formulas

2% SYNATIS™ cream
Placebo

Application

Twice-daily split-face application for 28 days

Measurement

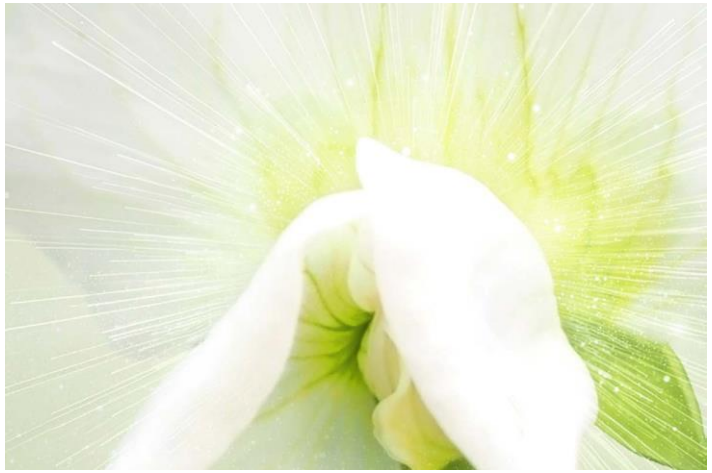
- Superficial brain activity by EEG during feather mechanical stimulation on face
- 32 channels headset system
- Alpha waves associated to relax sensations

SYNATIS™ improves neurocutaneous signaling and pleasant skin sensations

NAEMOS
The plant extraordinary

NIASKIN™

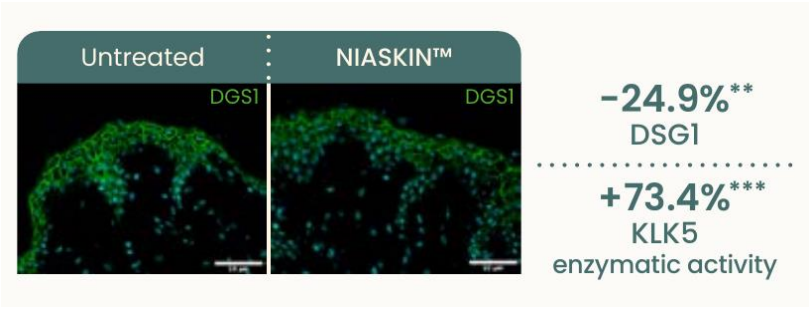
Natural niacinamide for brighter skin and finer pores



INCI Glycerin, Pisum sativum (pea) extract
Titrated in niacinamide
Dose 3 %
Extraction patented, using the plant's own water only
ELITE™ x3 niacinamide vs. non-elicited

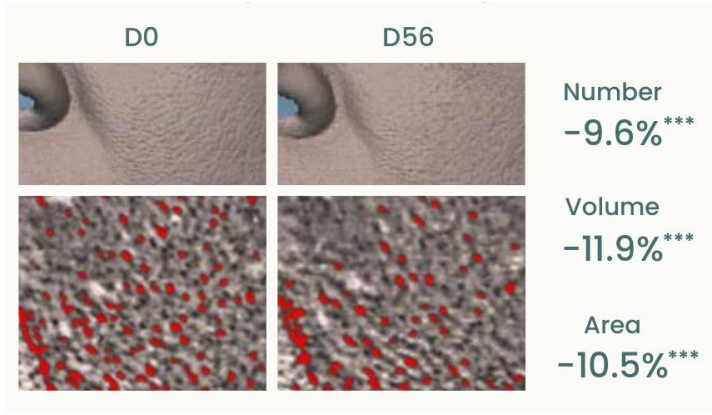
MECHANISM OF ACTION

The first natural source of niacinamide and peptides. Cellular energy (+28.7 % NAD+), sebum regulation (−29.7 % lipids) and enhanced desquamation.



CLINICAL RESTULTS

32 female volunteers · 35–65 y · 3 % cream · twice daily · 56 days



+73.4 % KLK5 activity – desquamation

−24.9 % DSG1 – corneocyte cohesion

+49.5 % pro-collagen 1 – pore structure

−11.9 % pore volume (D56)

+4.5 % skin brightness

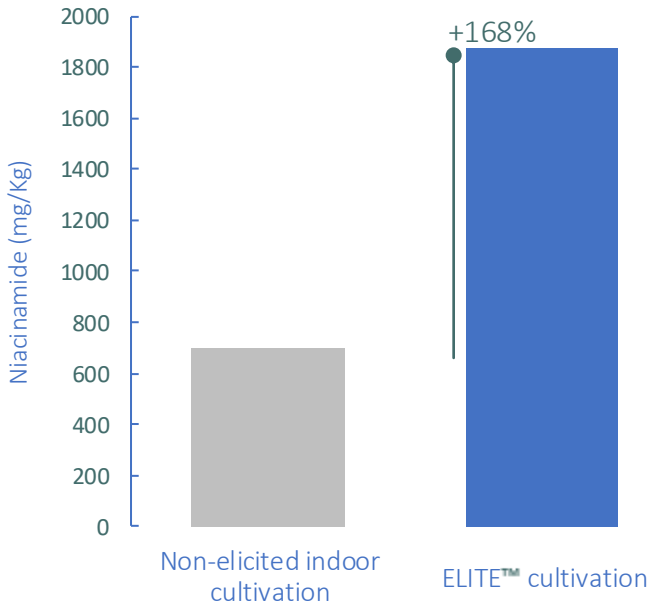
+74.8 % skin hydration

Augmented phytochemical profile

Elicitation results

Increase in Niacinamide content

Quantification in dry *Pisum sativum* microgreens



Among 200 identified phytopeptides, **18 account for 78% of the total**

- 5 dipeptides (41.7%)
- 5 tripeptides (16.3%)
- 3 tetrapeptides (6.4%)
- 2 pentapeptides (2.6%)
- 1 heptapeptide (4.0%)
- 2 octapeptides (7.0%)

Natural peptides content

Quantification in *Pisum sativum* extract

PHYTOPEPTIDES	%
Glu-Ala	25.9
Thr-Pro-Ser	8.8
Leu-Pro	6.8
Asp-Ala	6.3
Leu-Leu-Leu-Leu-Leu-Leu-Leu-Ala	4.1
Asp-Met-Met-Met-Glu-Met-Asn	4.0
Arg-Lys-Lys-Lys	3.5
Leu-Leu-Leu-Leu-Leu-Leu-Val-Va	2.9
Asp-Pro-Ser	2.6
Arg-Lys-Lys	2.6
Ala-Lys-Pro-Lys	1.7
Val-Pro	1.7
Asp-Val-Leu-Leu-Leu	1.4
Asp-Val-Ser-Lys-Leu	1.2
Leu-Leu-Leu-Ala	1.2
Val-Leu-Gly	1.2
Lys-Ala-Lys	1.1
Leu-Lys	1

Elicitation stimulates the production of valuable secondary metabolites

NAEMOS
The plant extraordinary

SUNGLOWER™

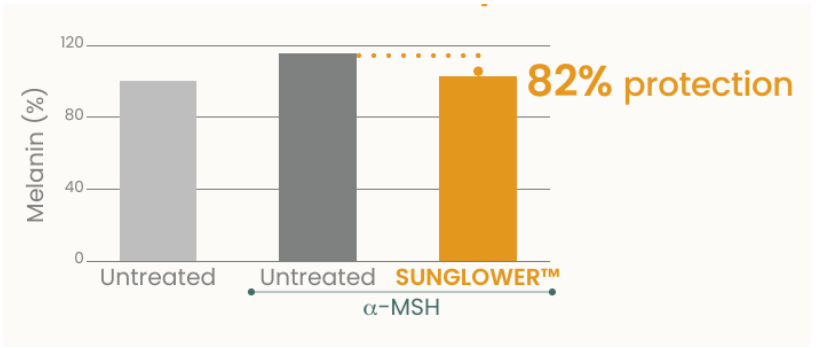
Reveal glowing skin with sunflower microgreens



INCI Water, Propanediol, Helianthus annuus (sunflower) extract
Dose 1 %
Extraction ultrasound-assisted water eco-extraction
ELITE™ photoperiod 18 h · mild climate

MECHANISM OF ACTION

Radiance through three pathways: less melanin, less glycation, stronger cell protection.



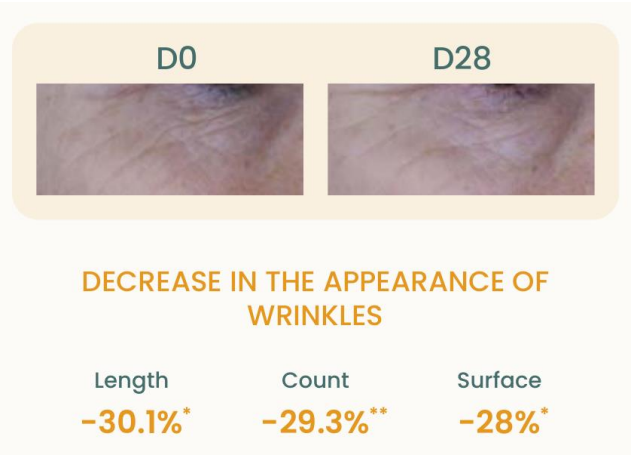
82 % protection against melanin production (α-MSH)

62 % protection against glycation (AGEs)

62 % cell protection from oxidative stress (NRF2)

CLINICAL RESULTS

21 female volunteers · 48–60 y · 1 % cream · twice daily · 28 days



−29.3 % wrinkle count (crow's feet)

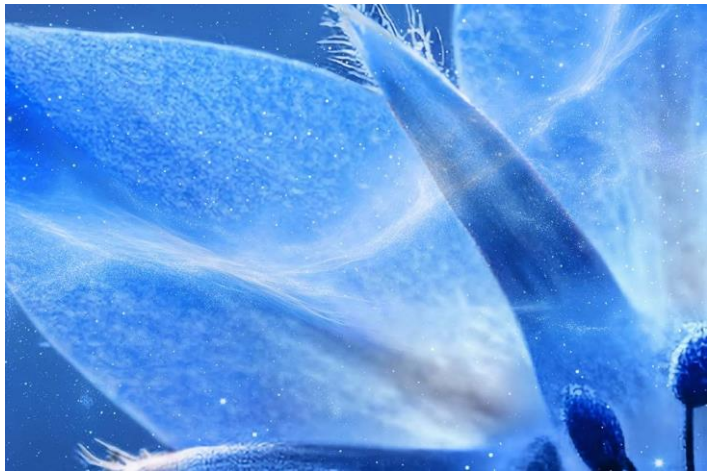
+23.8 % rosy glow

+9.8 % luminosity

PRODUCT 5 OF 6

SCAPILYA™

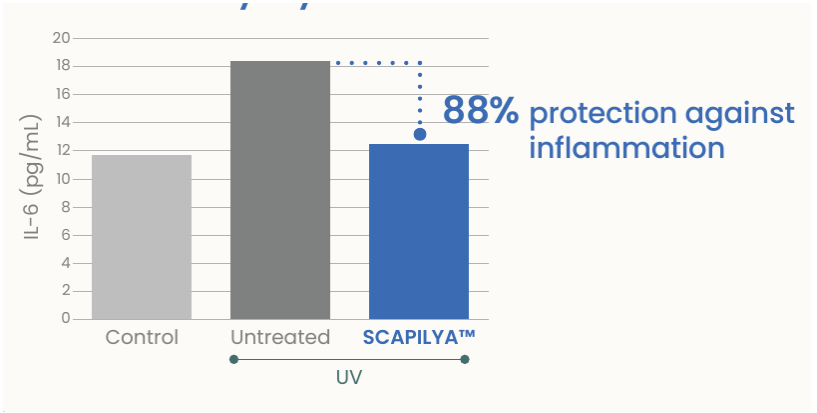
Anti-dandruff and scalp health recovery



INCI Glycerin, Borago officinalis extract
Titrated in polyphenols
Dose 1 %
Extraction patented, using the plant's own water only
ELITE™ x4 polyphenols vs. non-elicited

MECHANISM OF ACTION

Oily dandruff arises from inflammation combined with abnormal corneocyte cohesion. SCAPILYA™ addresses both.



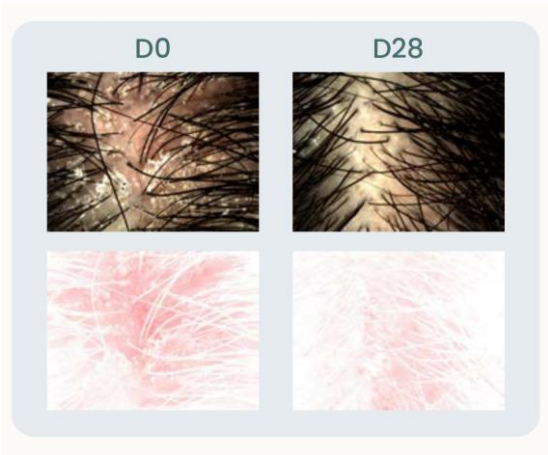
88 % protection against inflammation (IL-6)

+25 % KLK5 activity – desquamation

–12.1 % DSG1 – corneocyte cohesion

CLINICAL RESULTS

22 female and male volunteers with flaky, irritated scalp · 20–54 y · 1 % leave-on lotion · 3×/week · 4 weeks



–45.1 % flakes (D28)

–41.4 % redness (D28)

–33.3 % flakes already at D14

NAEMOS
The plant extraordinary

CALMELYS™

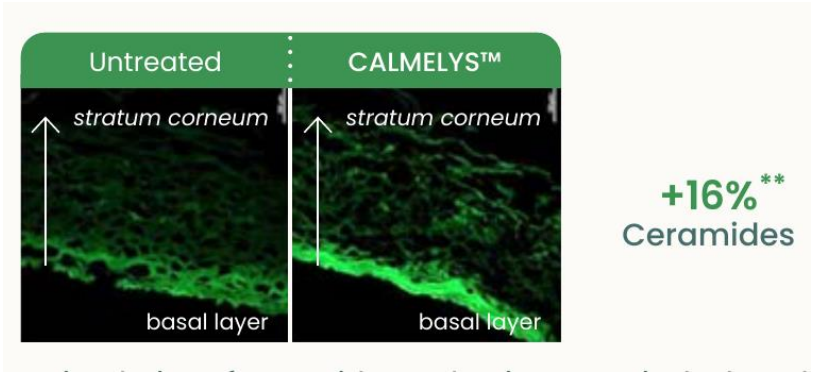
Soothing sensitive skin, imparting lasting comfort



INCI Glycerin, Water, Melissa officinalis extract
Titrated in rosmarinic acid
Dose 1 %
Extraction microwave- and ultrasound-assisted water eco-extraction
ELITE™ x4 rosmarinic acid vs. non-elicited

MECHANISM OF ACTION

Skin inflammation is closely linked to oxidative stress and a weakened barrier. CALMELYS™ reinforces the barrier and calms inflammation.



+16 % ceramides – barrier function

–45 % ROS – cell protection (–43 % DNA damage)

–45 % / –25 % IL-6 / TNF-α – cytokines

CLINICAL RESULTS

21 female volunteers with sensitive skin · 26–60 y · 1 % cream · twice daily · 28 days



–28.5 % redness

+34 % hydration

–94.8 % itching (skin sensitivity)

WHAT SETS NÆMOS APART

NÆMOS
The plant extraordinary

Why Næmos – and why now

ELITE™ elicitation

x3 – x4 higher concentration of target molecules versus non-elicited plants

Precision indoor farming

Pesticide-free, climate-independent, 100 % reproducible – batch after batch

Eco-extraction, no petrochemicals

Non-denatured, biodegradable – some extracted with the plant's own water alone

Novel modes of action

Skinome protection, mechanosensor rescue, the first natural niacinamide

Rigorously substantiated

Proven in vitro, ex vivo and in vivo – all claims versus placebo

Traceable & protected

"From seed to skin", 5 patents, 8 scientific contributions

AWARDS 2026



SHISOME™ in-cosmetics Silver · BSB 2nd Prize Natural Products
SYNATIS™ in-cosmetics Finalist · BSB 2nd Prize Cosmetics · Cosmetics Business Innovation Award – Winner

Thank you for your attention – I am happy to take your questions.