

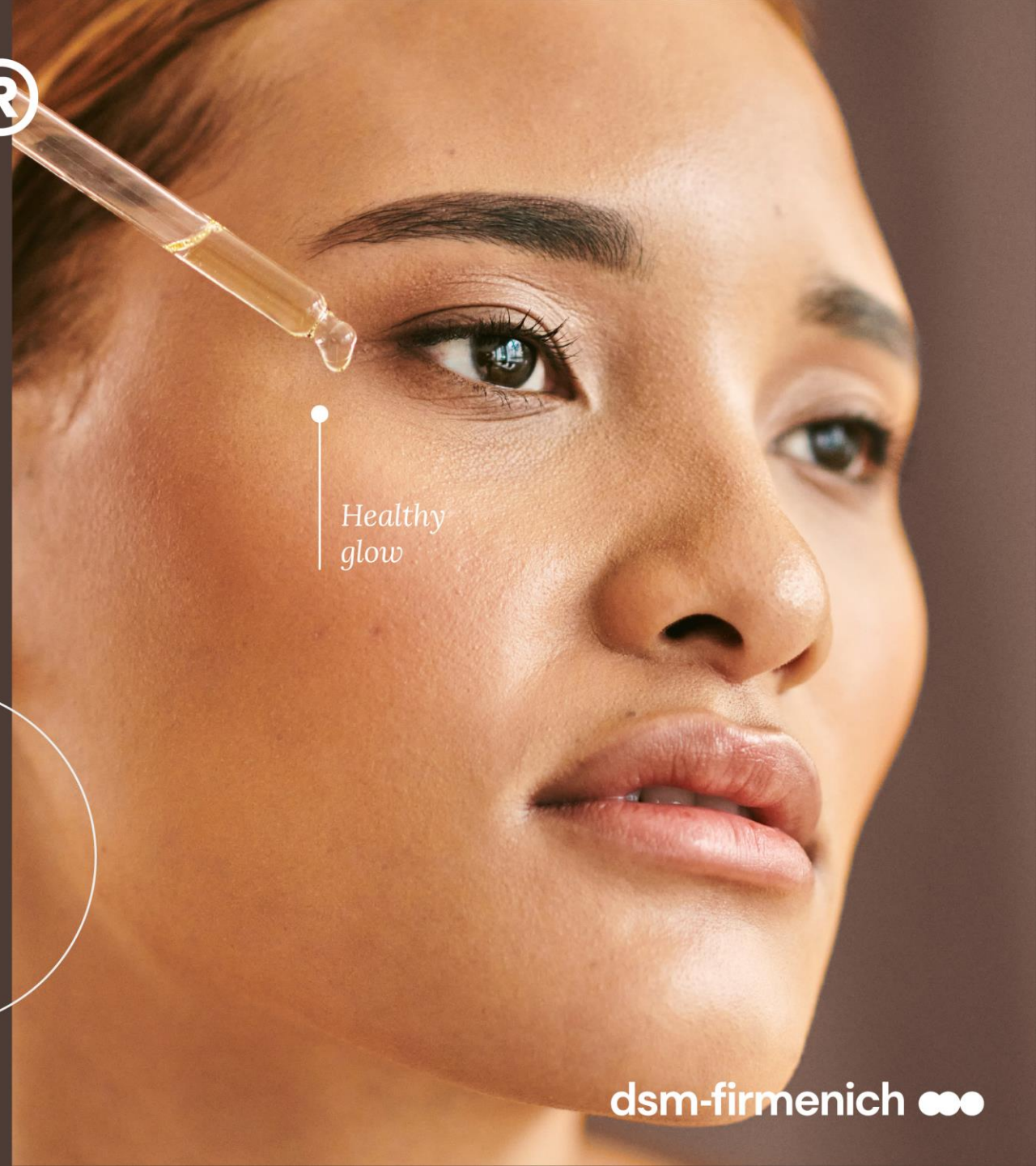
SYN-GLOW®

Reveal your summer glow



April 2025

Peptides | Pharma-inspired skincare



Healthy
glow

dsm-firmenich ●●●

SYN-GLOW®

ID Card

INCI NAME:	Benzoyl Dipeptide-18 D-Phenylalanyl Arginyl D-Tryptophan Dipropylamide Mesylate, Aqua, Glycerin		
TECHNOLOGY:	• Highly potent patented pentapeptide, made by cutting-edge SYN®-Peptide technology, designed to highly selectively boost MC1R (Melanocortin-1 receptor), a biochemical switch (off/on) of the Melanin synthesis • From a library of more than 100 peptides, SYN-GLOW® has been identified to be the best candidate to activate MC1R • In silico structure-based peptide design and artificial intelligence (AI), visualized with molecular modelling • TFA-free¹ • 99.9% of natural origin (according to ISO 16128)		
TECHNICAL:	Form: Liquid pH of use: 4.0-7.5	Use level: 1-3% Preservative: Free	Solubility: Water miscible
BENEFITS:	• Highly selectively MC1R booster* • Significantly boosting key regulators of Melanin synthesis MITF, TYR, TRP1* • Stimulates anti-oxidant defense factor (Nrf2) after UVA-irradiation* • Healthy, youthful, fresh-from-holiday look all year long** • Promotes a visible healthy glow in just 5 days, with long lasting result and natural personalized effect**		
REGISTRATION CERTIFICATION	   		

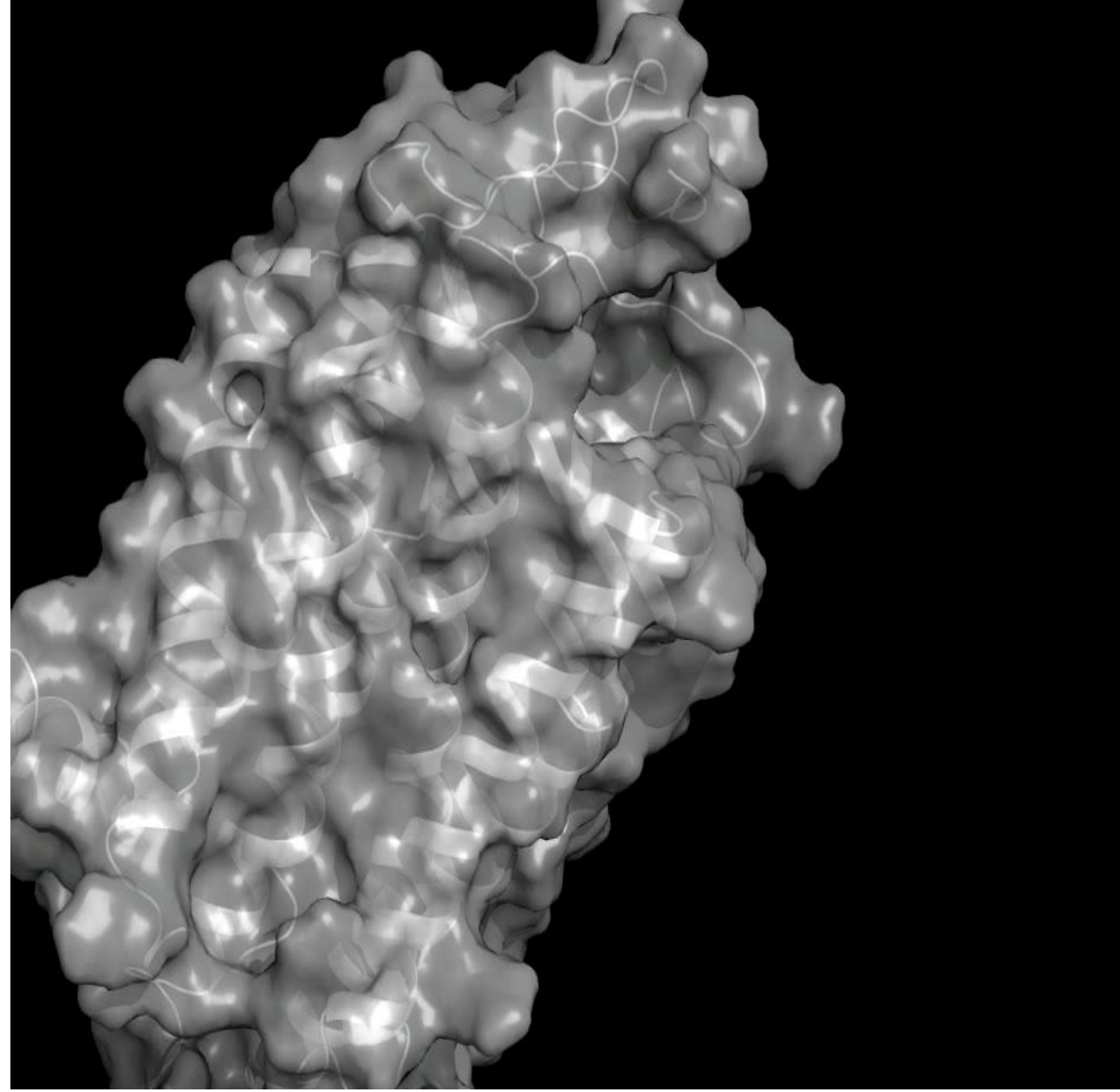
SYN-GLOW® is a pentapeptide Designed to highly selectively boost MC1R (or Melanocortin-1 receptor)

MC1R is the biochemical switch (off/on) of
the Melanin synthesis.

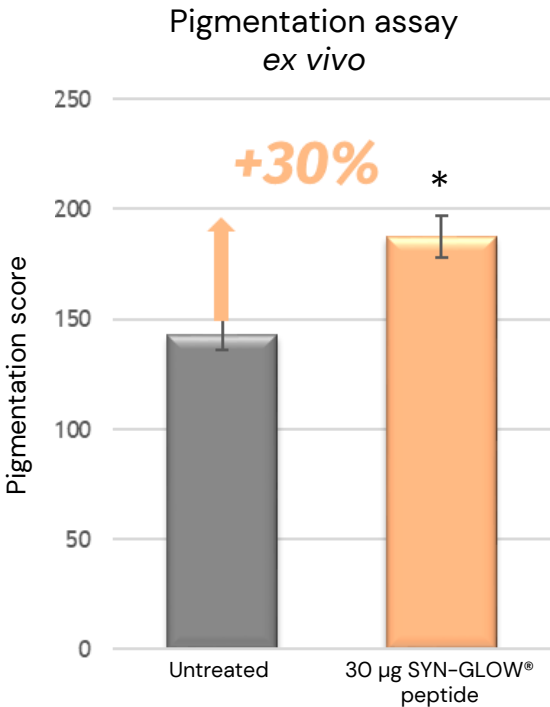
MC1R is a transmembrane protein,
integrated into the cellular membrane
and, in this role, it's the unique gate to
biological tanning.

Melanin is the pigment that gives skin its
unique sun-kissed tone.

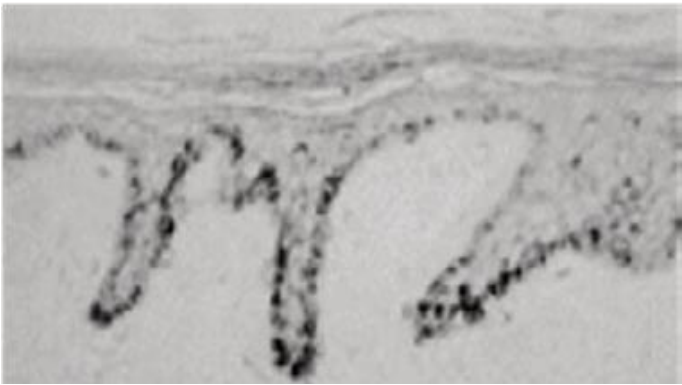
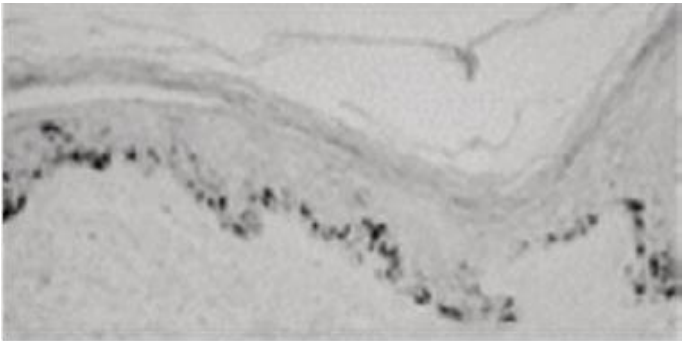
In vitro: from a library of more than 100 peptides, SYN-GLOW® has been identified to be the best candidate to activate MC1R. Results published in Int. J. of Molecular Sciences: <https://www.ncbi.nlm.nih.gov/pubmed/31817532>
Mode of action: Mc1R activation, related to scientific evidences. This is not intended to be final product claim



Significant *ex vivo* activity for SYN-GLOW®



Untreated



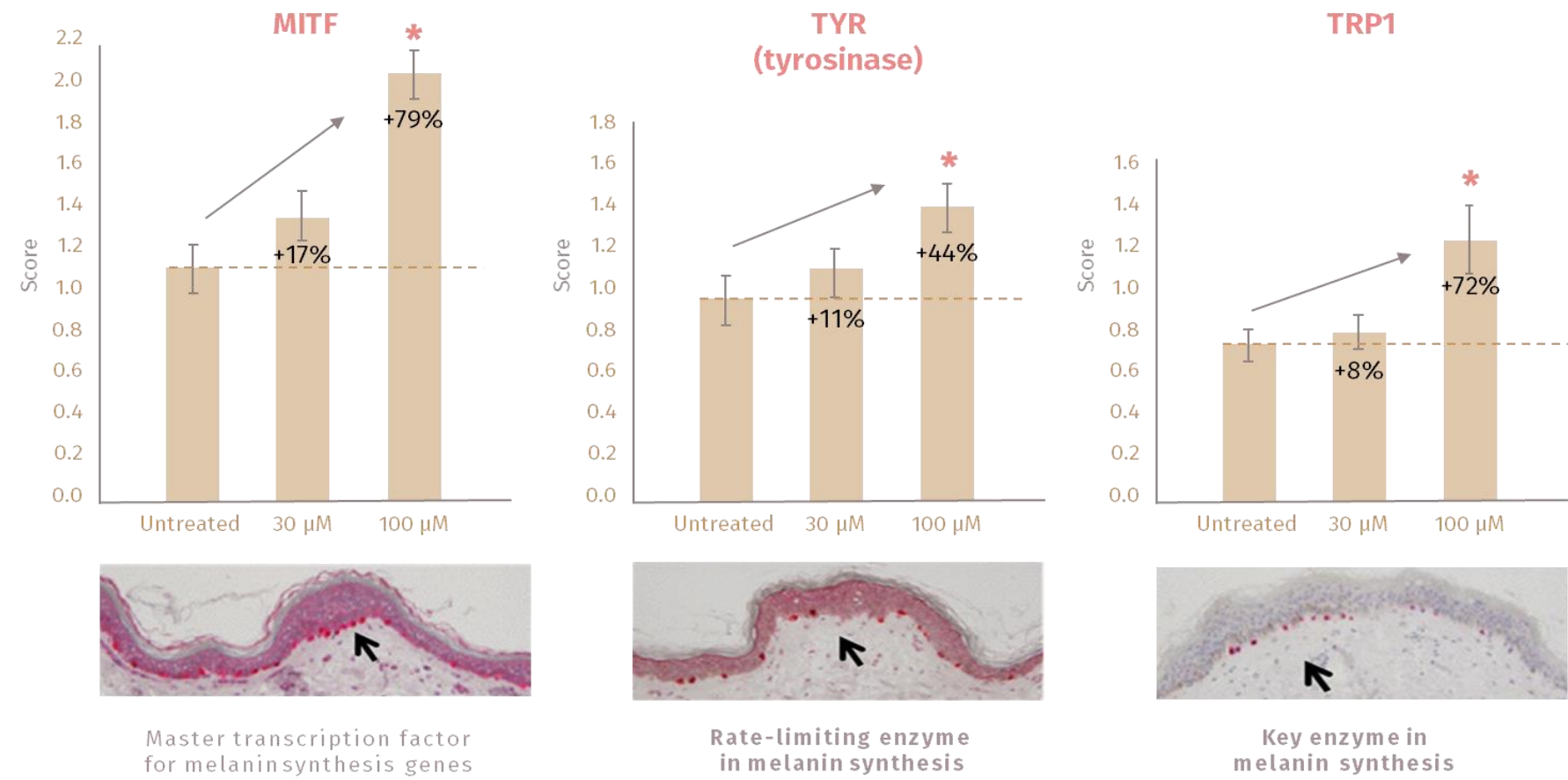
SYN-GLOW®

Up to +30% significant
more pigmentation

* $p < 0.05$ vs Untreated

Scientific Validation *EX VIVO*
Ex-vivo sample shown is from 47y.o female donor abdominal skin (ITA angle 18) with no light exposure

Significant *ex vivo* activity for SYN-GLOW®



Significantly boosting
key regulators of
Melanin synthesis

Scientific Validation *EX VIVO*
Melanin synthesis activation is related to scientific evidences (ex vivo) and is not intended to be final product claim

In vivo study

29 Volunteers application at inner forearm of 3% SYN-GLOW®

Product application phase (2 times per day)																		Post application phase						
Day		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
ITA Measure & Photo		ITA	«Real life» simulation*				ITA					ITA					ITA & Photo						ITA	



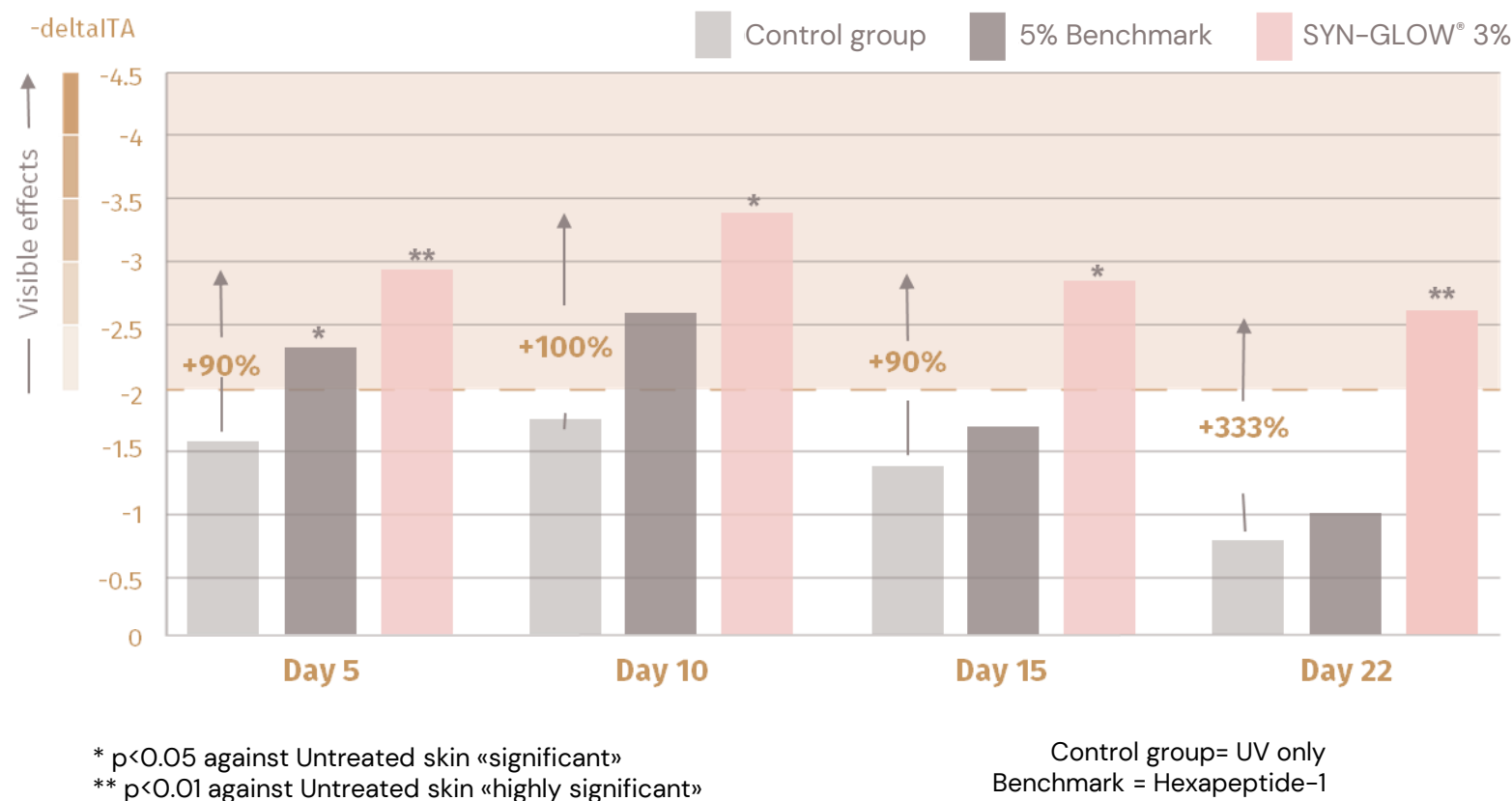
Overall set-up

- Pre-conditioning phase: product application, no UV exposure
- Day 1-4: product application, UV exposure
- Day 5-15: product application, no UV exposure
- Day 15-22: no application, no UV exposure

Scientific Validation *IN VIVO*
*We exposed skin to some UV light, in order to simulate "real life". UV exposure was done with a sunlight simulator, 40% below the minimal erythral dose (MED): this roughly corresponds to 15-30min outdoor, during avg Spring day in mid-European Country

Outstanding in vivo results!

With SYN-GLOW®, a visible healthy glow in just 5 days with long-lasting effect



Personalized glow boost with SYN-GLOW®

Day 0 Baseline



Subject 6

Day 10 Glow peak



UV only 3%
SYN-GLOW®

Day 22 Long lasting effect



UV only 3%
SYN-GLOW®

Facial visualization. L* a* b* values from SYN-GLOW® Clinical Study – Subject n3

Outstanding *in-vivo* results!

With SYN-GLOW®, a visible healthy glow in just 5 days with long-lasting effect

Consumers' feedback:

100% of consumers

noticed their skin looking fresher and more revitalized

Over 90% of consumers

noticed their skin looking less dull and tired

Over 80% of consumers , 3X more

noticed a facial healthy glow

Close to 70% of consumers

noticed their skin tone more even and homogeneous

Over 80% of consumers

would use this product again

Qualitative questionnaire
Clinical study, 16 female volunteers, 20–55 y.o., phototype II – IV, with planned outdoor activities. SYN-GLOW® containing formulation was applied on the face twice per day



Supported claims

- Natural healthy glow in just 5 days
- Prolonged summer bronze
- Personalized result, bespoke complexion
- Strengthened skin natural defenses from within

Qualitative questionnaire
Clinical study, 16 female volunteers, 20–55 y.o., phototype II – IV, with planned outdoor activities. SYN-
GLOW® containing formulation was applied on the face twice per day



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