

SYN[®]-HYCAN

*Hyaluronic Acid booster:
firming and remodeling from within*

CB



Restored
skin
volumes

04.2026

Peptides | Pharma-inspired skincare

dsm-firmenich 

SYN®-HYCAN CB

ID Card

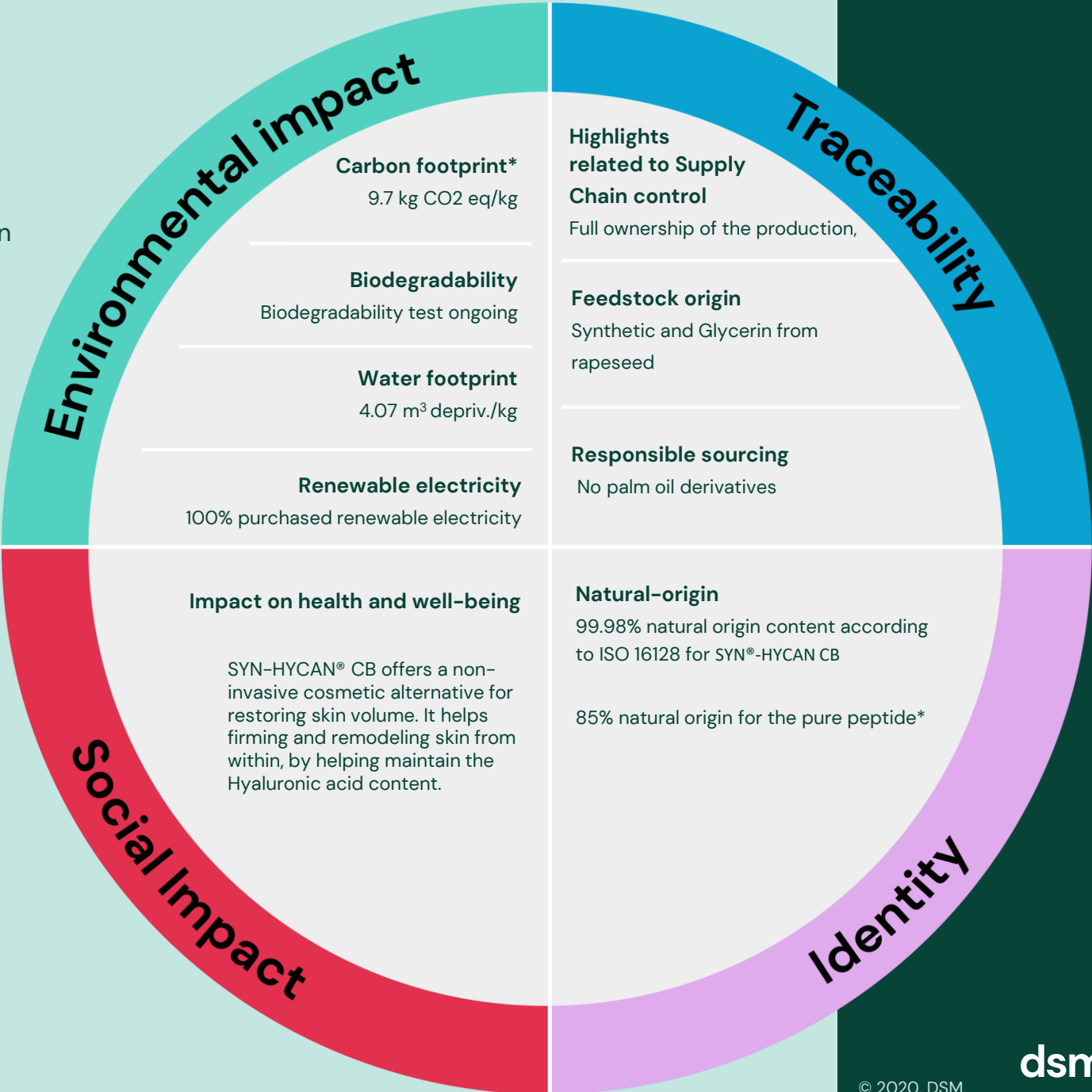
INCI NAME:	Tetradecyl Aminobutyroylvalylaminobutyric Urea Acetate, Glycerin, Aqua, Magnesium Chloride		
TECHNOLOGY:	- Highly potent, natural origin tripeptide, suitable for Clean-Beauty, produced via Green Chemistry Science with an optimized SYN®-Peptide technology, designed to stimulate hyaluronic acid from within - Original SYN®-HYCAN peptide generation patented; CB version patent application pending - TFA-free¹ 99.98% natural origin (ISO 16128) for SYN®-HYCAN CB - 85% natural origin (ISO 16128) for the pure SYN®-HYCAN peptide²		
TECHNICAL:	Form: Liquid pH of use: 3.0-5.5	Use level: 2-5% Preservative: Free	Solubility: Miscible in water
BENEFITS:	- Boosts hyaluronic acid (HA) synthesis in both keratinocytes and dermal fibroblasts* - Increases CD44 expression, a key cellular anchor of HA* - Increases collagen type 1, lumican and decorin levels, important for collagen support & organization* - Provides visible filling effect in just 2 weeks - Lifts even the most difficult areas, such as the neck - Benefits on multiple skin zones (under eye, upper- and mid-cheek, jawline, neck, lip) - Increases skin firmness +200% on cheek area.		
REGISTRATION CERTIFICATION:	    		

1. Non-intentionally added TFA
* in vitro ** in vivo

SYN®-HYCAN CB

INCI name: Tetradecyl
 Aminobutyroylvalylaminobutyric Urea
 Acetate, Magnesium Chloride, Aqua, Glycerin
 Product Code: 5017794

PIONEER IN PEPTIDES
 High performance active
 with low carbon footprint
 contribution.
 Natural origin peptide
 suitable for Clean–Beauty,
 produced via Green
 Chemistry with an
 optimized synthesis



Aligned with and
 contributing to the
**SUSTAINABLE
 DEVELOPMENT
 GOALS**



The carbon and water footprint calculations are based on internally
 conducted LCA according to ISO 14040/44 guidelines, dsm–firmenich
 LCA policy and validated by internal reviews.

The natural origin Index is at 0.85 according to the ISO 16128 standard

SYN[®]-HYCAN CB

A natural peptide for sustainable formulations



Carbon footprint of 9.7 kg CO₂ eq./kg. High efficiency allowing a low carbon footprint in use(1).



SYN-HYCAN[®] CB suitable for Clean-Beauty with TFA free process (2). Natural-origin peptide (0.85 natural origin Index according to ISO 16128).



Green chemistry reaction type (3) with an optimized synthesis reducing the number of steps (8 vs 14 steps previously).



Switch from a solid phase to a liquid phase process, allowing for significantly reducing amounts of solvents and for including greener solvents.

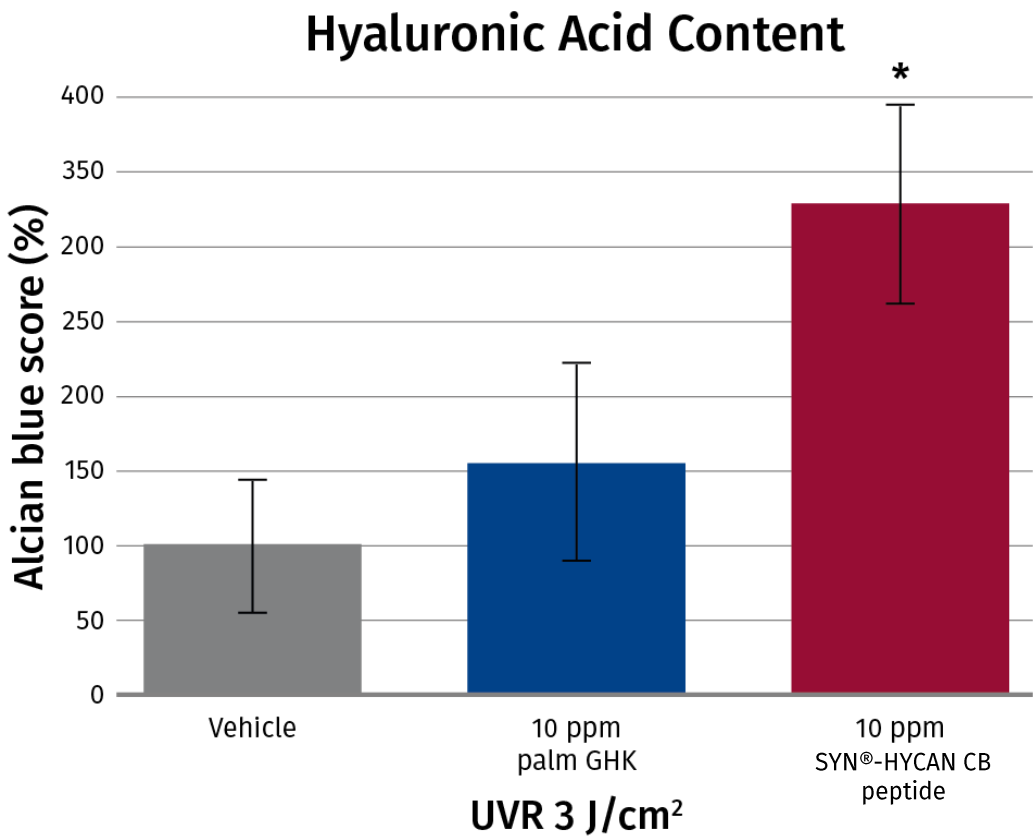


Production with no CMR solvents and no CMR reagents.

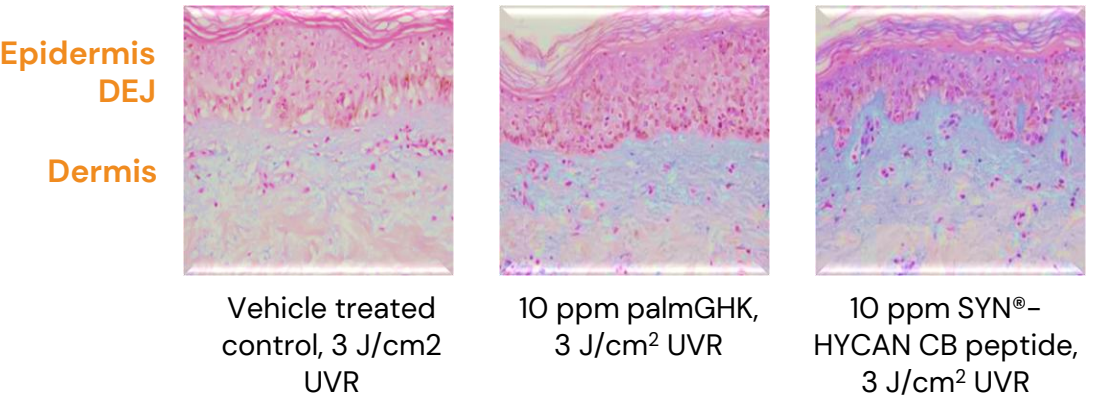
- (1) Considering a 1-3% concentration of SYN-HYCAN[®] CB in final formulation, 97-291g CO₂ per kg in final formulation.
- (2) TFA replaced with acetic acid.
- (3) Main reaction type is amidation

The Advantage of Building from Within

ex-vivo efficacy



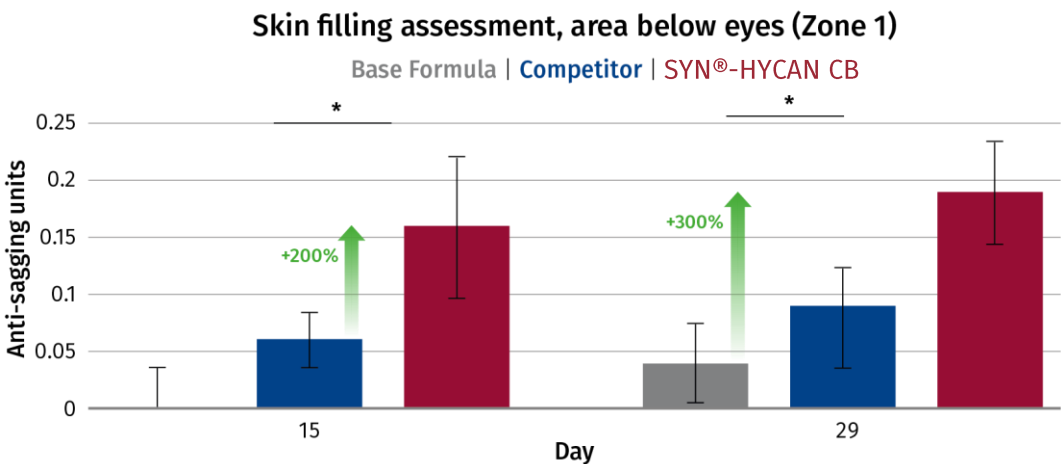
SYN®-HYCAN CB peptide
boosts hyaluronic acid
synthesis in skin ex-vivo by 3x



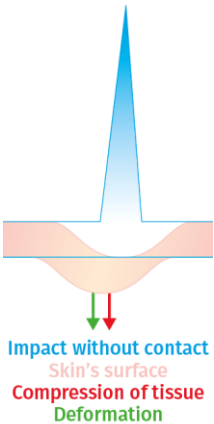
Hyaluronic acid synthesis (blue staining) is significantly increased in human skin explants treated with UV-radiation after six days topical incubation with the **SYN®-HYCAN CB** peptide.

Boosts Skin's Own Renewal of Hyaluronic Acid

- Boosts Hyaluronic Acid synthesis in skin up to 3 times
- Enhances CD44 expression, a key cellular anchor of Hyaluronic Acid
- Provides visible filling effect up to 3x better than competitor in just 2 weeks
- Provides visible firming effect, significantly increasing skin firmness up to +200%

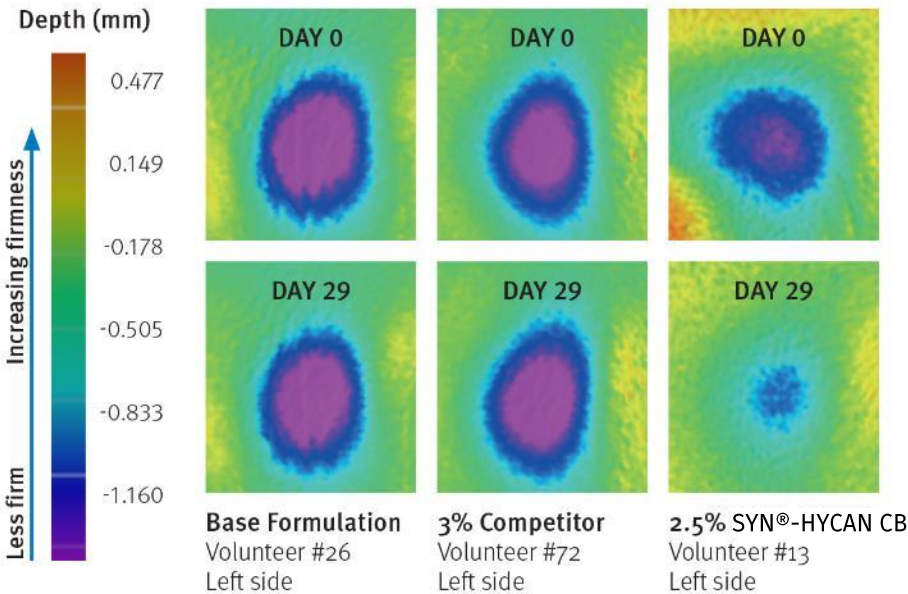


Negative Volume Assessment – Device utilizing air pressure to create a deformation in the skin area allowing to assess skin firmness before and after treatments



in-vitro efficacy
in-vivo efficacy

DynaSkin device
assessment of skin
firmness: visible
effect



Summary of Benefits

Biological concepts

- Potent TGF-Beta activating peptide with proven HA synthesis action
- Proven to enhance skin firmness to support the new benefit of a “volumizing” effect
- Boosts production of dermal and epidermal hyaluronic acid, in-vitro and ex-vivo
- Boosts CD44, a key cellular receptor for hyaluronic acid
- Increases collagen 1, lumican and decorin levels, important for collagen support & organization
- Outperforms competitive peptide technology in skin volumizing effect

Consumer benefits

- Provides visible filling effect in **just 2 weeks**
- Lifts even the most **difficult areas**, such as the neck
- Benefits on **multiple skin zones** (under eye, upper- and mid-cheek, jawline, neck, lip)
- Increases skin firmness **+200%** on cheek area.



Disclaimer

Copyright © dsm-firmenich Switzerland AG, 2026, 4002 Basel, Switzerland.
www.dsm-firmenich.com. All rights reserved.

dsm-firmenich has used diligent care to ensure that the information provided herein is accurate and up-to-date to the best of its knowledge. However, dsm-firmenich makes no representation or warranty, either expressly or implied, of the accuracy, reliability, completeness, or suitability thereof. The information provided herein contains scientific and product information for business-to-business use and does not constitute or provide scientific or medical advice, diagnosis or recommendation for treatment options. Country or region-specific information should be considered when labelling or advertising to final consumer. In no event shall dsm-firmenich be liable for any direct or indirect damages arising from or reliance upon, or use of, any information provided herein. The content of this document is subject to change without further notice. Please contact your local dsm-firmenich representative for the latest information. All trademarks listed in this document are either (registered) trademarks of, or trademarks licensed by, the dsm-firmenich group of companies, unless explicitly stated otherwise.

Disclaimer Formulation Guideline

The information provided herein is provided for information purposes only and has been prepared by dsm-firmenich in accordance with its own methodology. dsm-firmenich has used diligent care to ensure that it is accurate and up-to-date, however, dsm-firmenich makes no representation or warranty, either expressly or implied, of the accuracy, reliability, or completeness thereof. In no event shall dsm-firmenich be liable for any damages arising from or reliance upon, or use of, any information provided herein. Further, dsm-firmenich shall not bear any liability for the application and/or use of any processed material containing its product(s). The formulation of the finished product is the customer's sole responsibility. It is the customer's responsibility to determine the suitability of dsm-firmenich's products regarding user specific purposes, assess compatibility and stability of their finished product(s) and to ensure compliance of their finished product(s) with relevant laws and regulations. Any product, marketing or other claims made by customer are its sole responsibility. The content of this document is subject to change without further notice. Please contact your local dsm-firmenich representative for further details. © dsm-firmenich Switzerland AG, 2026.

We bring progress to life