

SYN[®]-TACKS

*Boosting beauty through
the dermal-epidermal junction*

CB



April 2025

Peptides | Pharma-inspired skincare

Smoother skin,
reduced wrinkles
appearance

dsm-firmenich 

SYN®-TACKS CB

ID Card

INCI NAME:	Palmitoyl Dipeptide-5 Diaminobutyroyl Hydroxythreonine, Palmitoyl Dipeptide-5 Diaminohydroxybutyrate, Aqua, Glycerin		
TECHNOLOGY:	- Combination of two patented highly active tri- and tetrapeptides, made by latest cutting-edge SYN®-Peptide technology, designed to support the dermal-epidermal junction (DEJ) - TFA-free¹ 99.9% of natural origin (according to ISO 16128)		
TECHNICAL:	Form: Liquid pH of use: 3.0-5.5	Use level: 1-3% Preservative: Free	Solubility: Miscible in water
BENEFITS:	- Improves overall DEJ functionality by significantly stimulating Integrin β4, Laminin V, Collagens IV, VII and XVII, and all at once* - Improves molecular communication and structural integrity skin** - Smoother skin and visible reduction of wrinkle appearance ** - Rejuvenated, more compact skin** - Increased skin suppleness by +35%** - Increased skin tonicity by +31%** - Increased skin firmness by +17%**		
REGISTRATION CERTIFICATION:	   		

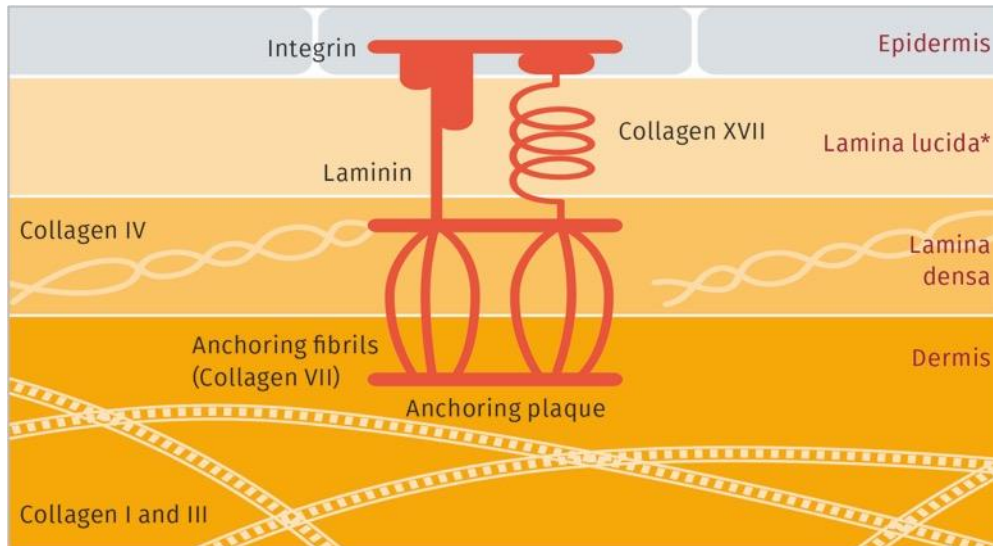
1. Non-intentionally added TFA
* in vitro ** in vivo

2 Peptides | Pharma-inspired skincare

Re-designing the Dermal-Epidermal Junction (DEJ) to reach the “Top of Beauty”

Biological concepts

- Improves overall DEJ functionality by significantly stimulating Integrin $\beta 4$, Laminin V, Collagens IV, VII and XVII, and all at once
- Improves molecular communication and structural integrity



Integrin $\beta 4$ plays an important role in inter-cellular communication

Laminin V is essential to epidermal cell attachment

Collagen type IV is a key molecule that ensures functionality of the Dermal-Epidermal Junction (DEJ). It forms a sheet to which the anchoring peptides are connected.

Collagen type VII forms anchoring fibrils in the dermal epidermal junction. Connects the dermis to the DEJ.

Collagen type XVII plays a major role in holding the layers of skin together as it anchors the epidermis to the DEJ

Consumer benefits

- Smoother skin and reduced appearance of wrinkles
- Rejuvenated, more compact skin
- Increased skin suppleness by +35%
- Increased skin tonicity by +31%
- Increased skin firmness by +17%

Unique and efficient

For maximum efficacy SYN®-TACKS CB comprises two peptides to stimulate synthesis of major dermal-epidermal junction (DEJ) proteins.

Patented tripeptide with an unique amino acid sequence Palm-Lys-Val-Dab.

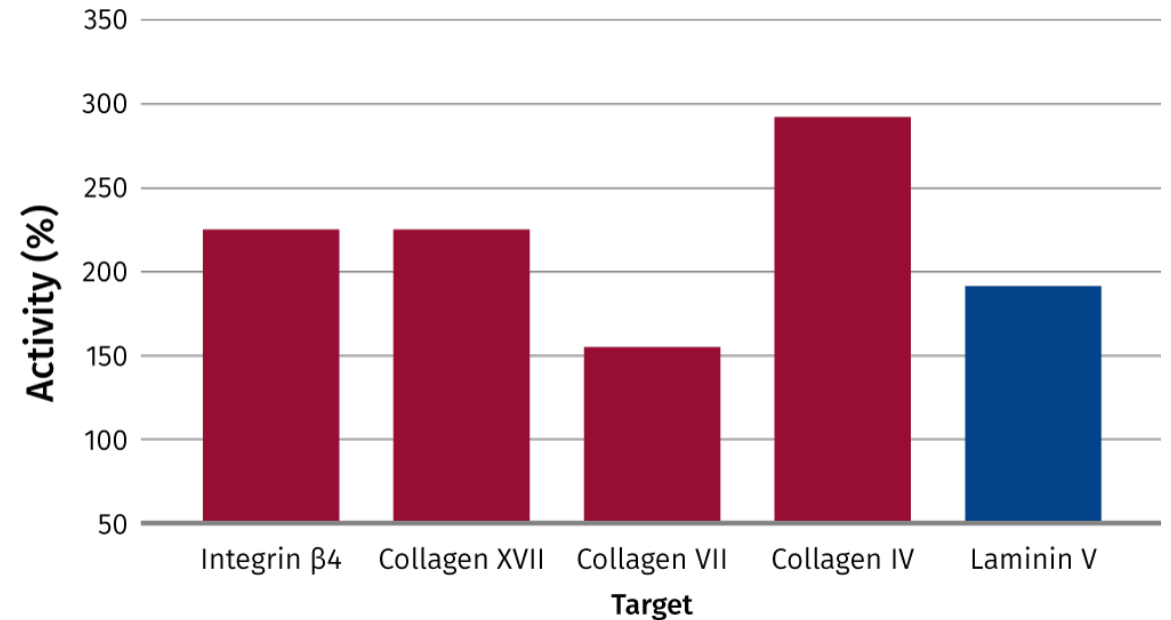
Patented tetrapeptide with an unique amino acid sequence Palm-Lys-Val-Dab-Thr.

The first peptide complex to improve overall dermal-epidermal junction (DEJ) functionality.

Palm-Lys-Val-Dab = Palmitoyl-Lysine-Valine-Diaminobutyric acid

Palm-Lys-Val-Dab-Thr = Palmitoyl-Lysine-Valine-Diaminobutyric acid-Threonine

Significantly stimulates Laminin V, Collagens IV, VII and XVII, and Integrin β 4 all at once



Stimulation of the synthesis of relevant DEJ proteins by Palm-Lys-Val-Dab-Thr (50 μ M, in red) and Palm-Lys-Val-Dab (100 μ M, in blue).

Fewer wrinkles and more compact skin

Visible reduction of wrinkle appearance

Improved compactness
and communication
between skin layers

A clearly improved
cohesion, number of cell
layers torn off is reduced

Before

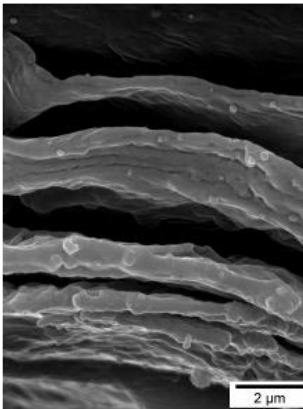


After

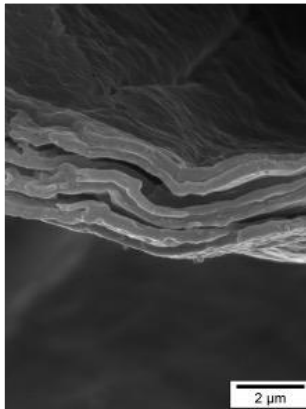


Macrophotograph of a 45-year-old volunteer after 56 days of treatment with 1% SYN®-TACKS CB

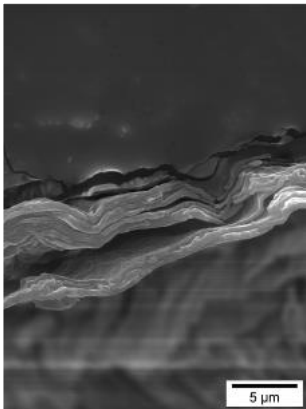
Before



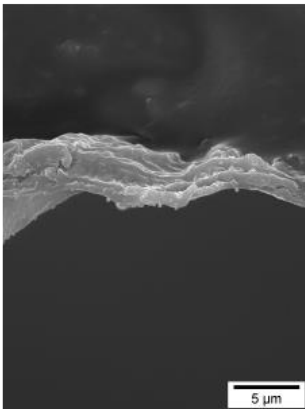
After



Before



After



Scanning electron microphotographs of tape stripping of a 62-year-old volunteer after 84 days of treatment with 1% SYN®-TACKS CB

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