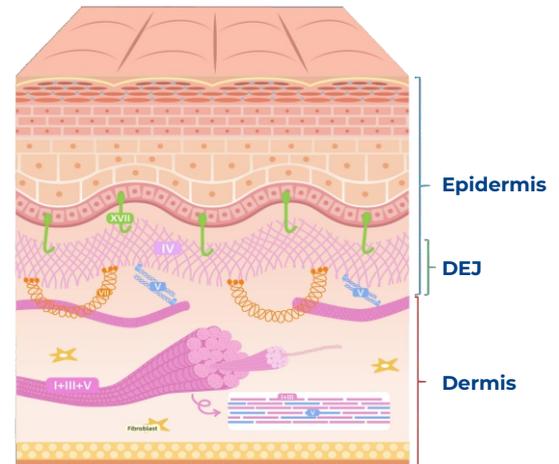


Bio-fermented Vegan Collagen 6D

Biomimetic Architecture of the Skin's 6 Collagens

BIOTECH EDGE

Vegan Collagen 6D is a refined **bio-fermented complex** engineered to authentically mirror the skin's natural collagen architecture. Its six-type biomimetic composition reinforces epidermal strength, revitalizes the dermal matrix, and **supports the delicate dermal-epidermal junction** for enhanced structural integrity. This advanced collagen spectrum replenishes density lost through age and stress, restoring elasticity, improving epidermal thickness, and softening wrinkles for a visibly firmer and more resilient complexion.



PRODUCT DETAILS

INCI name:

**Sh-polypeptide-47, Sh-polypeptide-123, Deca (sh-Polypeptide-179),
Deca(sh-polypeptide-180), Deca(sh-polypeptide-175),
Hepta (Tripeptide-29) sh- Polypeptide-165, Hexa (Tripeptide-29), water, glycerine,
1,2- Hexanediol**

Component:

**Type I, III, IV, V, VII, and
XVII collagen**

Appearance:

**Colorless to light-yellow
transparent liquid**

Recommended Dosage:

0.5 % to 10 %

APPLICATIONS :



Dermal repair
formulations



Barrier-strengthening
treatments



Firming and
lifting creams



Anti-ageing
formulation



Biotech-enhanced
facial serums
Hydrating mist

KEY FEATURES:

- Six-type Biofermented collagen designed to reinforce epidermal, dermal, and DEJ structure
- Helps correct collagen-related weaknesses such as dry, flaky, or sensitive skin
- Refines enlarged pores and improves balance in oily or acne-prone skin
- Enhances firmness to reduce wrinkles, sagging, and visible loss of elasticity
- Supports healthier tone to diminish dullness and yellowish appearance
- Promotes smoother, more resilient, and well-conditioned skin texture



Type I Collagen

Provides support to the skin

In adult skin, type I collagen accounts for about 70%, with a coarse structure that supports the dermis and epidermis, maintaining skin contours and providing resilience.

Type III Collagen

Gives the skin elasticity

In infant skin, Type III collagen accounts for about 60%, with a finer structure distributed in a mesh around Type I, providing skin softness, elasticity, and repair functions.

Type IV Collagen

Maintains the health of the basement membrane

The network structure formed by cross-linked Type IV collagen accounts for about 50% of the basement membrane, constituting the basic framework of the basement membrane, which ensures the fundamental functions of the skin.

Type V Collagen

Maintains the structural morphology of collagen

Exists in the structure of I/III type collagen fiber bundles, altering the lateral three-dimensional growth of collagen fibrils, promoting the formation of new fibrils, and playing a role in helping to form and maintain.

Type VII Collagen

Maintains the health of the basement membrane

Type VII collagen forms anchoring fibers that connect to the dermis by binding with the basement membrane, serving to anchor and stabilize the epidermis.

Type XVII Collagen

Connects the epidermis to the basement membrane

Type XVII Collagen transmembrane glycoprotein promotes the connection between the epidermis and the basement membrane, stabilizing the basement membrane.

Functions Of

Type I Collagen

The Pillar Of Skin Stability

Type IV Collagen

Basal Functional Network

Type III Collagen

The Key To Skin Elasticity

Type VII Collagen

The Chain Anchoring The Skin

Type V Collagen

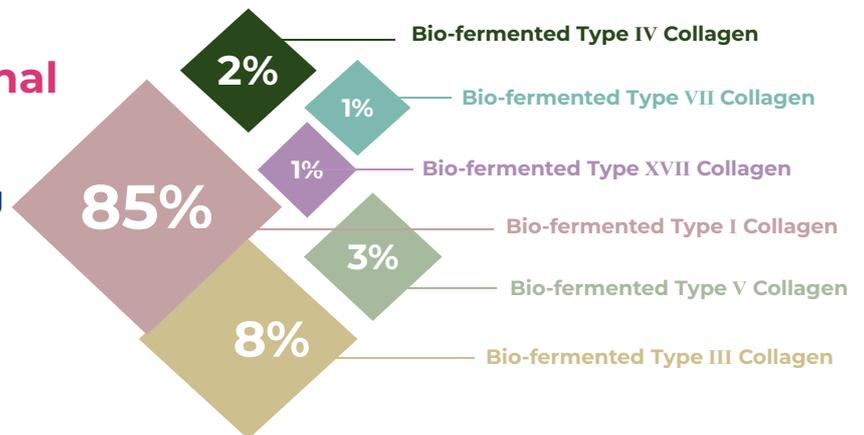
Source Of Collagen Morphology

Type XVII Collagen

The Cause Of Epidermal Health

Full Biomimetic Proportional Combination

Biomimetically combined according to the proportions of those types of collagen in human skin, scientifically biomimetic ratios are used to authentically restore skin collagen



Full Biomimetic Proportional Combination Biomimetically combined according to the proportions of those types of collagens in human skin, scientifically biomimetic ratios are used to authentically restore skin collagen.

WHAT IT BRINGS TO YOUR FORMULATION :

- A high-purity, vegan Biofermentedcollagen engineered for functional transformation
- Superior biomimetic ratios that mirror native collagen behavior
- Excellent solubility and compatibility across aqueous and emulsion systems
- Proven performance in skin repair, firmness, and wrinkle refinement

Ex Vivo Test Results

Anti-wrinkle (Ex vivo)

Compared to the model group, the sample group can repair the broken collagen fiber structure, enhancing collagen fiber density 280%, demonstrating significant anti-wrinkle efficacy



Ex vivo skin



Dose: 100 ppm testing sample
Bio-fermented Vegan Collagen 6D

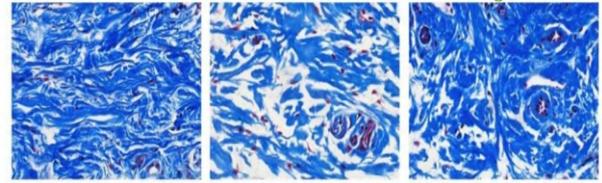


Relative density of collagen fibers

Normal control group

Model control group

Bio-fermented Vegan Collagen 6D



Ex Vivo Clinical Test Results

Anti-wrinkle (Ex vivo)

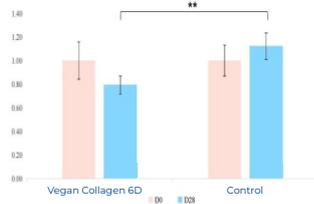
After 28 days of Vegan Collagen 6D use, the transepidermal water loss value of the sample group decreased by 29.46% compared to the control group



In vivo

Dose: 100 ppm testing sample
Bio-fermented Vegan Collagen 6D

Transepidermal water loss (TEWL) value



In Vivo Clinical Test Results

Repair (In vivo)

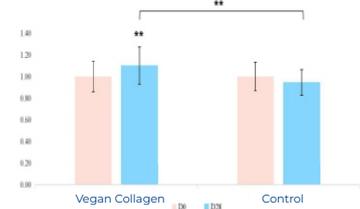
After 28 days of Vegan Collagen 6D use, the thickness value of the skin epidermis in the sample group increased by 21.78% compared to the control group



In vivo

Dose: 100 ppm testing sample
Bio-fermented Vegan Collagen 6D

Skin epidermal thickness value



Ex Vivo Clinical Test Results

Firming (Ex vivo)

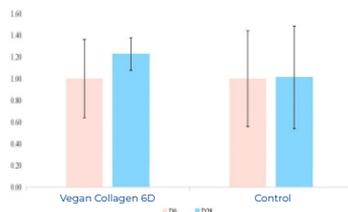
After 28 days of Vegan Collagen 6D use, the epidermis in the sample group increased by 21.78% compared to the control group



In vivo

Dose: 100 ppm testing sample
Bio-fermented Vegan Collagen 6D

R2 value of skin elasticity at the outer corner of the eye



In Vivo Clinical Test Results

Repair (In vivo)

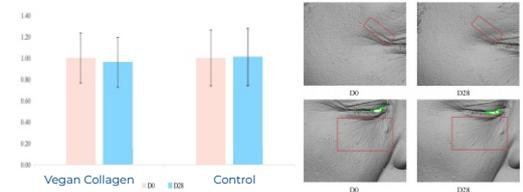
After 28 days of Vegan Collagen 6D use, the wrinkle area in the sample group decreased by 4.95% compared to the control group



In vivo

Dose: 100 ppm testing sample
Bio-fermented Vegan Collagen 6D

Wrinkle Area



CLINICALLY PROVEN BENEFITS :

- Increases collagen fiber density as demonstrated in ex vivo analysis
- Enhances epidermal thickness for improved structural resilience
- Reduces trans epidermal water loss for a stronger, healthier barrier
- Improves the skin's ability to return to its original shape after stretching, indicating enhanced firmness and elasticity
- Visibly decreases wrinkle area, promoting a smoother and more youthful appearance
- Promotes skin repair by aiding cellular regeneration and barrier restoration

