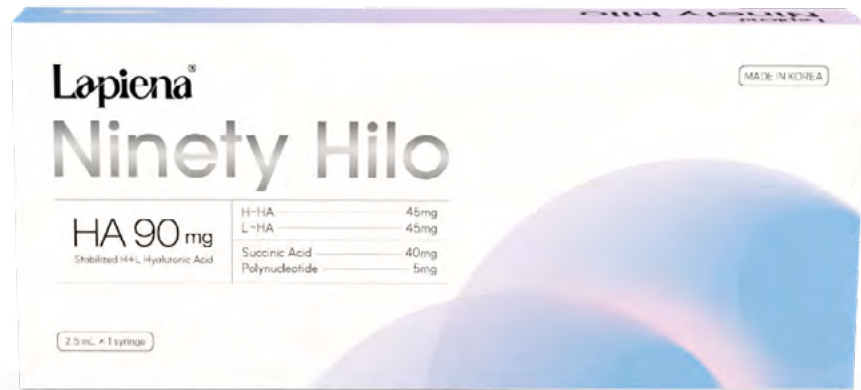




Ninety Hilo

Lapiena[®]

Ninety Hilo



What is Ninety Hilo?

A premium skin booster that deeply hydrates, firms, and restores your skin's natural radiance. Powered by advanced technology, it rejuvenates and strengthens from within for long lasting, natural looking results.

Powered by ABEP™ Technology: a crosslinker free hybrid HA complex that enhances hydration, elasticity, and durability.

Specifications

Product Name Lapiena Ninety Hilo

Volume 2.5ml / Syringe

Package 1 pre-filled syringe / box

Shelf Life 24 months

Storage Store in a cool, dry place, away from heat and light.

Key Ingredients



High Molecular Weight Hyaluronic Acid

H-HA - 45mg

Creates a moisture barrier to lock in hydration, enhance plumpness, and improve elasticity.



Low Molecular Weight Hyaluronic Acid

L-HA - 45mg

Penetrates deep to stimulate collagen/elastin, regenerate skin, and reduce wrinkles.

Two-phase Mixing

Redox process



H-HA + L-HA Synergy
→ HA 90mg

Combines surface protection with deep repair for lasting hydration, smoother texture, and stronger skin.

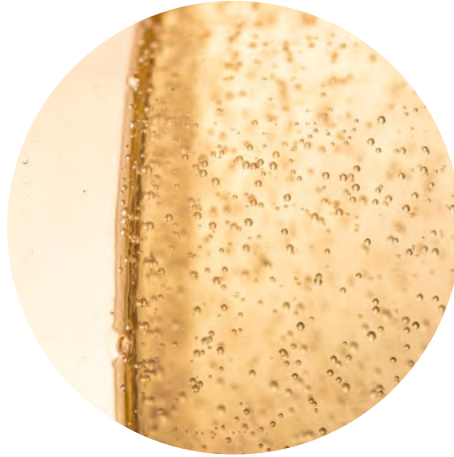
Lapiena Ninety Hilo contains a total concentration of **90mg — 45mg of H-HA and 45mg of L-HA** — enhancing both the range and duration of effects. This dual formulation delivers multi layer hydration, stimulates collagen production, accelerates skin repair, and maintains rejuvenation for longer. The combination of L-HA and H-HA is realized through the **ABEP™ technology** process, resulting in an advanced hybrid hyaluronic acid complex.

Key Ingredients



PN (Polynucleotide)

From salmon DNA, stimulates cell growth, boosts healing, and promotes collagen for firmer, smoother skin.



Succinic Acid

Reduces inflammation, fights bacteria, and supports collagen/elasticity to smooth skin and fade blemishes.



Copper Tripeptide-1

Promotes tissue repair, protects DNA, slows aging, and provides antioxidant and protective benefits.

- Reference:**
- Lee, K. W. A., Chan, K. W. L., Lee, A., Lee, C. H., Wan, J., Wong, S., & Yi, K. H. (2024). Polynucleotides in aesthetic medicine : A review of current practices and perceived effectiveness. *International Journal of Molecular Sciences*, 25 (15), 8224.
 - Papurina, T., Barsukov , O., Zabuga , O., Krasniakov , D., & Denis, E. (2023). Effects of succinic acid on dermal fibroblasts during cultivation under extremely hypoxic condition s. *Biochemistry and Biophysics Reports*, 33, 101429.
 - DeHaven, C. (2014). Copper Tripeptide 1 . Science of Skincare, LLC, INNOVATIVE SKINCARE®

ABEP™ Technology

ABEP™ Technology: (Acid Base Equilibrium & Redox Process) Hybrid Hyaluronic Acid Complex

Innovative. Safe. Effective.

ABEP™ Technology is a groundbreaking technology that creates a hybrid hyaluronic acid (HA) complex combining the best of both worlds: the structural support of **H-HA** and the regenerative power of **L-HA** — in one advanced, crosslinker-free system.



Blending of H-HA and L-HA

H-HA
(1300-1500 kDa)
+
L-HA
(200-400 kDa)



ABEP™ HYBRID TECHNOLOGY

Acid-Base and Redox Processing
Formation of a hybrid HA complex
with dual molecular weight
through dual-process application



Formation of Stable Hybrid Complex

Stable hybrid HA complex acquired

Core Benefits of ABEP™ Technology

- Improved rheology for easy application
- No crosslinking agents — Pure HA
- Lower risk of adverse reactions
- Produces high concentration HA
- Maintains low viscosity at high concentration

Inside ABEP™ Technology

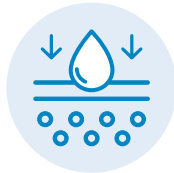
01



Preparation of H-HA

H-HA is dissolved under mild acidic conditions, maintaining its extended structure through partial ionization of carboxyl groups.

02



Activation of L-HA

L-HA is dissolved in an alkaline, redox-active environment, activating reactive groups to enhance compatibility.

03



Two-phase Mixing

The two HAs are combined in proper ratios, achieving acid-base balance and forming initial physical and ionic bonds.

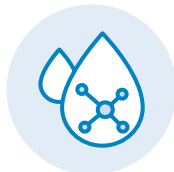
04



Hybrid Crosslinking

Mild oxidation generates aldehyde groups, which form covalent Schiff base linkages between the two HAs.

05



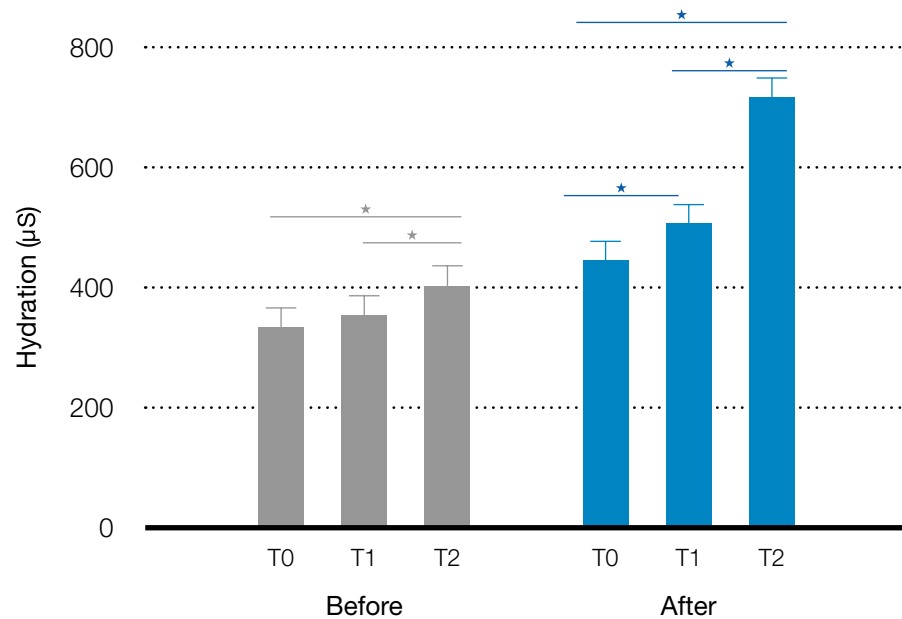
Final Hybrid Complex

The result is a stable, covalently crosslinked hybrid HA network with enhanced structural integrity.

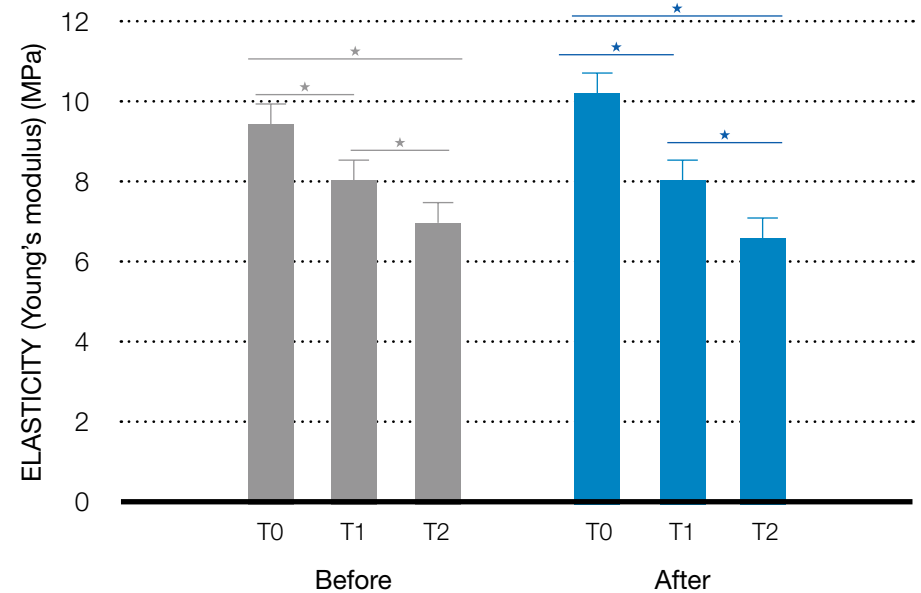
Effects of ABEP™ Technology

Hydration

Ninety Hilo deeply hydrates your skin, unveiling a naturally radiant glow and renewed vitality.



Facial skin hydration mean \pm SEM values ($\star P < .01$).



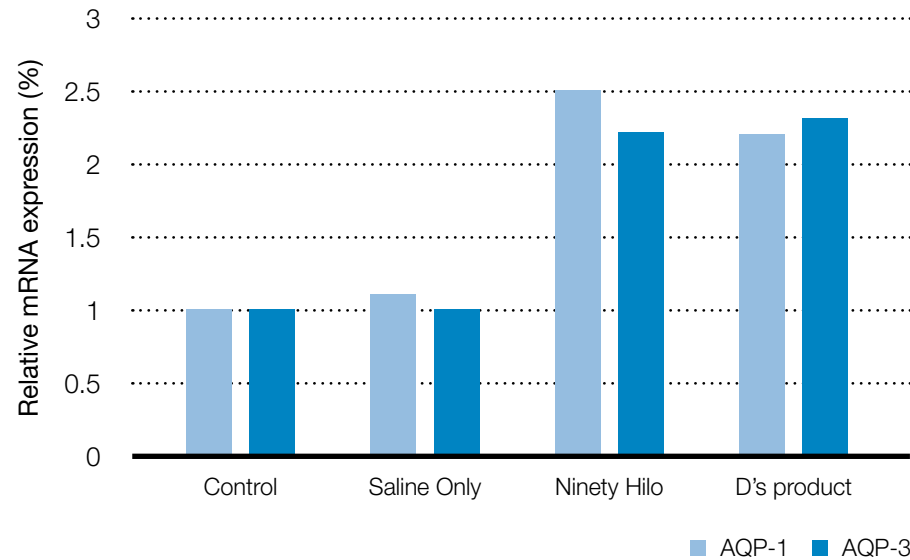
Facial skin elasticity (Young's modulus) mean \pm SEM values ($\star P < .01$).

Note: T0: Before Treatment, T1: 1 Week After Treatment, T2: 2 Weeks After Treatment

Effects of ABEP™ Technology

Skin Moisturizing Effect

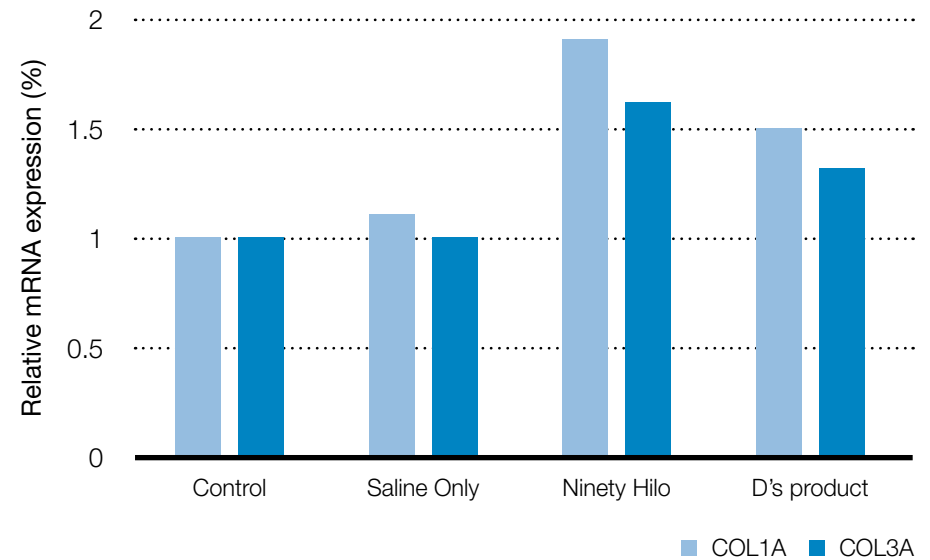
The products were tested on human dermal skin cells, and the gene expression of key moisturizing factors was analyzed for comparison.



Note: AQP-1, AQP-3 (Aquaporin-1,3): water-channel proteins that keep the skin hydrated and healthy.

Collagen Synthesis Effect

Each product was applied to human dermal skin cells, and the gene expression levels of collagen synthesis factors were measured and compared.

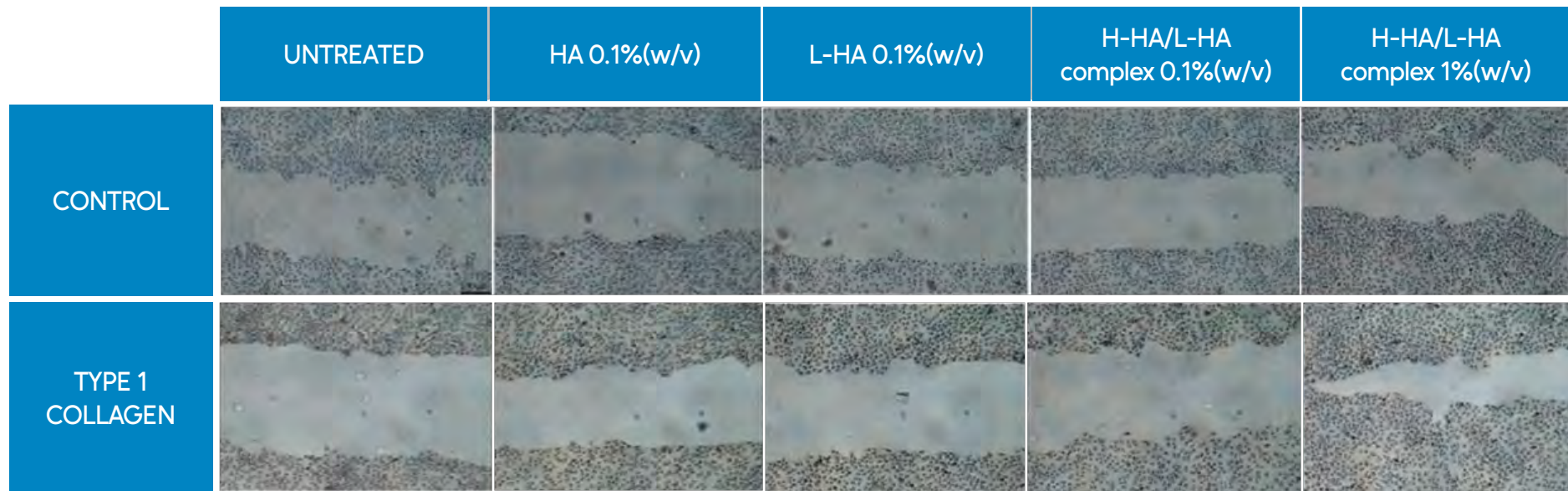


Note: COL 1A, 3A (Collagen type 1A, 3A: genes that produce different types of collagen, which is a key protein that gives skin its structure and strength.

Effects of ABEP™ Technology

Collagen Synthesis

Ninety Hilo promotes collagen production, helping to reduce fine lines and wrinkles while enhancing skin firmness.

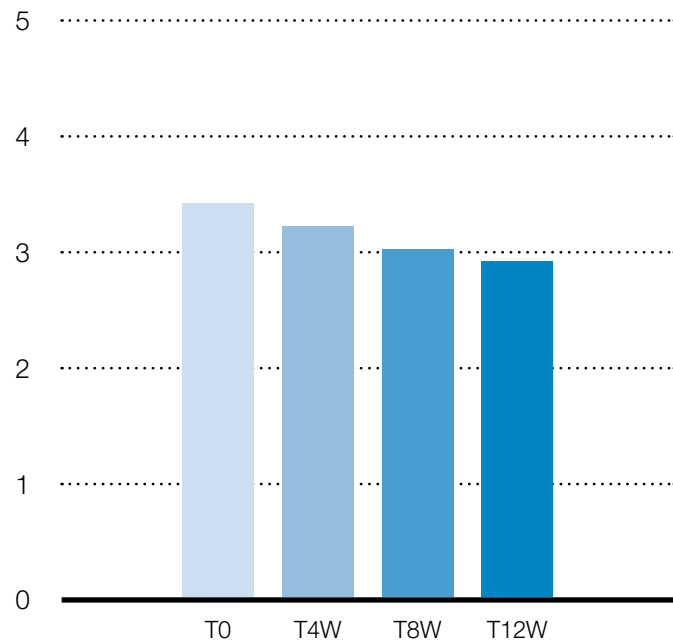


Immunostaining of COL1A1 in scratched HaCaT cells 12 hours after applying different HA gel treatments.

Effects of ABEP™ Technology

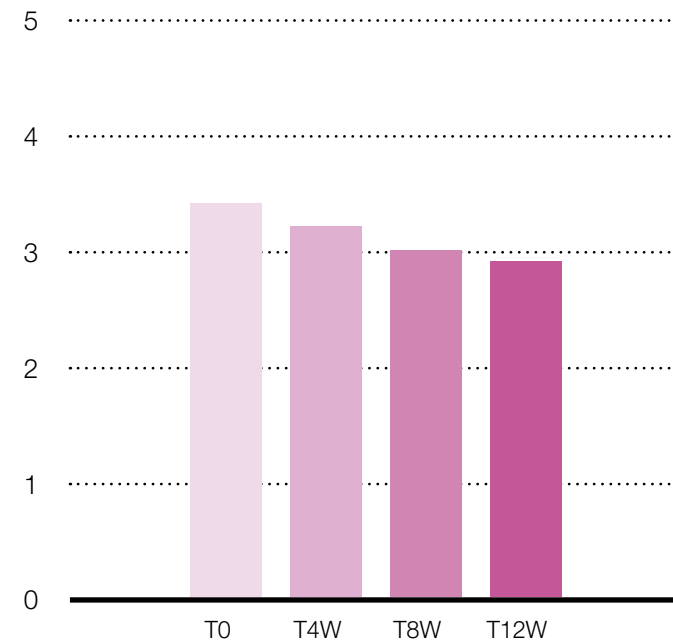
Tissue Remodeling

Ninety Hilo is designed to remodel the extracellular matrix, helping reduce wrinkles and sagging skin for a naturally youthful appearance.



WSRS scores (wrinkle severity) progressively decreased.

*Note: *P < 0.05 vs. baseline (T0). WSRS = Wrinkle Severity Rating Scale.*



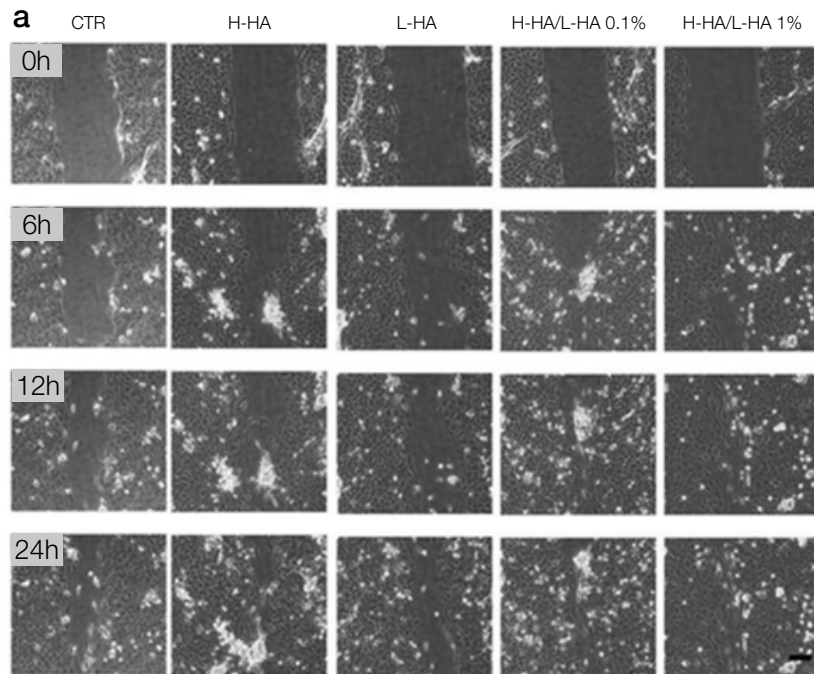
FVLS scores (cheek volume loss) steadily improved.

*Note: *P < 0.05 vs. baseline (T0). FVLS = Facial Volume Loss Scale.*

Effects of ABEP™ Technology

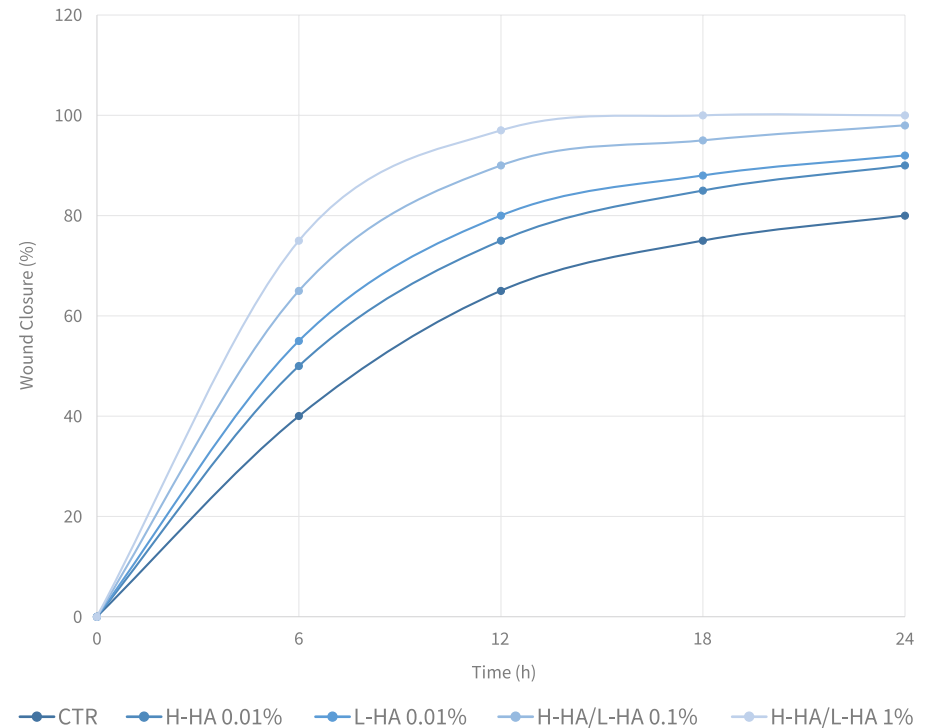
Tissue Repair

Designed to support skin recovery, Ninety Hilo helps repair dermal tissue affected by acne or scarring.



Images showing the progression of wound healing in HaCaT HDF scratch assays over time, starting from the initial scratch.

HaCaT: Human epidermal keratinocyte model
HDF: Human dermal fibroblast model



Comparison of repair area (%) between the control and samples treated with different stimuli.

Benefits Overview



Refined Tone & Texture

Even, radiant complexion with smoother texture.



Deep & Long Lasting Hydration

Multi layer moisture from surface to deep dermis, supported by AQP 1 & AQP 3 activation.



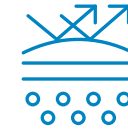
Protection & Resilience

Antioxidant defense, stronger barrier, and improved resistance to external stressors



Cell Vitality Boost

Enhanced fibroblast activity for healthier, more resilient skin.



Firmness & Lift

Improved elasticity, natural lifting, and structural support through collagen and elastin stimulation.



Skin Renewal & Repair

Accelerated regeneration, wound healing, and tissue repair.

Application Areas

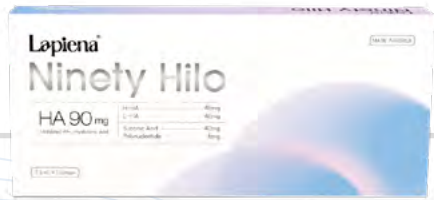
- 1 Cheekbone
- 2 Nose base
- 3 Chin
- 4 Jawline
- 5 Temple
- 6 Neck
- 7 Hand

Treatment Methods

- MTS
- Derma-roller
- RF & Laser Device
- Non vasive Devices



Recommended Session Plan



1st
Treatment

Results last up to 6 weeks, with about half of the effect still visible.

6 Weeks Later

2nd
Treatment

Adds another 3 months of improvement.

3 Months Later

3rd
Treatment

Maintains results for up to 6 months in total.

Ninety Hilo

Lapiena®

HJ Corporations Co.,Ltd
T +82 2-2641-0209
F +82 2-2641-0210
E info@hjcorporations.kr

