

NORDBERG medical

JULÄINE™
Of Sweden

Designed *to* Regenerate.

This information material is intended for distribution by healthcare professionals only.

Start *your journey*

Start your journey



Your face tells *your story*

Over time, your skin's renewal slows, and signs of aging appear.

- Loss of support – The underlying structure of your skin loses integrity, causing sagging.¹
- Declining collagen production – Skin loses firmness and elasticity.¹
- External factors – Sun exposure, pollution, and lifestyle choices can accelerate the process.¹
- Genetics – Your unique DNA influences how your skin ages.¹



Collagen keeps your skin firm and elastic, but its production slows over time.¹

What if you could help your skin renew itself naturally?



The Power of *collagen and poly-l-lactic acid*

Collagen is responsible for keeping your skin young, smooth, and firm. As we age, its natural production slows — leading to:¹⁻³

Loss of elasticity and volume, fine lines, wrinkles, and a tired or sagging appearance.

Two key types - collagen type I and III - are essential for the maintenance of the skin:³



Skin strength and structure



Elasticity and flexibility



Softness and resilience



Poly-L-Lactic Acid: The secret to youthful skin

Poly-L-lactic acid is more than just a skincare ingredient – it's a powerful natural compound that stimulates your skin's ability to regenerate.⁴

By stimulating collagen production, it can help restore firmness and elasticity.³



JULÄINE™ can activate your *skin's natural renewal*⁵

Imagine a treatment that works with your skin. JULÄINE™ is an innovative technology for facial rejuvenation - designed to naturally reactivate your body's own collagen production for long-lasting, natural results.^{5,7-10}

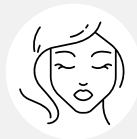
Why choose JULÄINE™?



Can stimulate your skin's natural collagen production for a firmer, smoother look.^{3,5,7}



Can progressively reduce wrinkles for results that last up to 24 months.^{8,10}



Long-term skin bio-activation for long-lasting youthful skin.^{3,4,10}



How does it work?

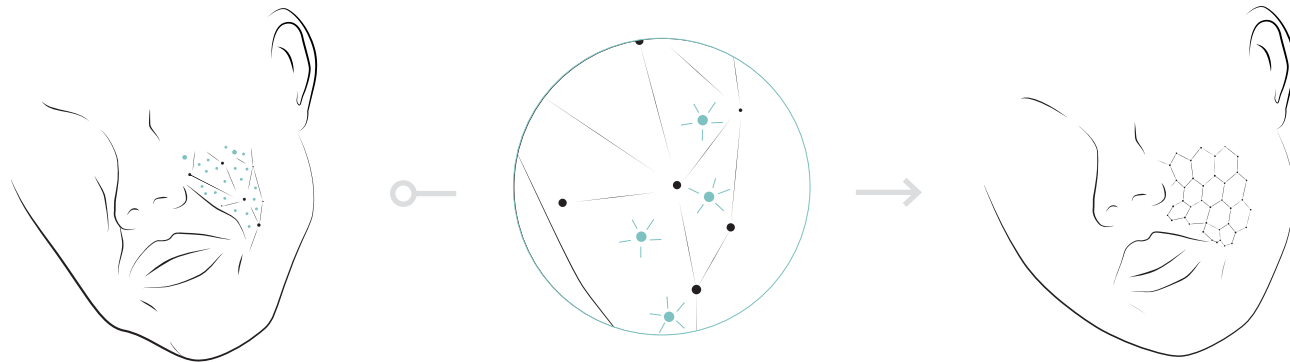
JULÄINE™ contains PLLA microspheres, which stimulate fibroblasts to regenerate new and healthy collagen with mild inflammation.⁵⁻⁸

As the microspheres gradually degrade, they stimulate formation of healthy collagen that helps keep your skin firm and can reduce the appearance of wrinkles.^{5,8,10,11}



How JULÄINE™ works: *unlock the secret*

JULÄINE™ is injected into the skin specifically
in the area of the nasolabial folds:⁵



The PLLA microspheres
stimulate fibroblasts, which
initiate collagen production.⁷

Over time, fibroblasts
generate new and healthy
collagen, enhancing skin
strength and elasticity.^{1,3}

As the microspheres slowly
degrade, the newly formed
collagen fibers remain and
support the skin's structure,
promoting long-lasting
rejuvenation.⁵

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JULÄINE™ – *a new era of skin regeneration*

JULÄINE™ is designed to regenerate and achieve
natural, long-lasting results – so you look like you, only
refreshed.^{4,7,9,10}

Exclusively available at leading aesthetic clinics:

- Injected by highly trained professionals
- Good safety profile^{5,6}
- Approved by health authorities⁵



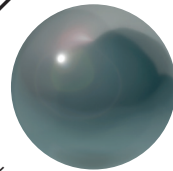
**Your skin deserves JULÄINE™ for
natural and long-lasting results.^{4,7,9,10}**



LASYNPRO™ - the technology *behind JULÄINE™*

LASYNPRO™ technology is an innovation in regenerative aesthetics, producing ultra-smooth and round PLLA microspheres.¹²

LASYNPRO™



PLLA microspheres



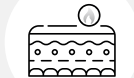
Highly uniform particle
size and shape.^{5,12}



Larger surface* leads to
stronger fibroblast activity and
collagen production.^{7,8}



Slow, controlled
degradation over time.⁵



Stimulates a regenerative
process with infrequent, mild
inflammation.^{4,6,13}

*Compared to standard PLLA.

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■ In the event of an adverse reaction, consult your doctor immediately.

References

1 Farage MA, et al. (2013) Characteristics of the Aging Skin. *Adv Wound Care*, 2(1):5–10. | **2** Shuster S, Black MM & McVitie E. (1975) The influence of age and sex on skin thickness, skin collagen and density. *Br J Dermatol*, 93(6):639–643. | **3** Reilly DM & Lozano J. (2021) Skin collagen through the lifestages: importance for skin health and beauty. *Plast Aesthet Res*, 8:2. | **4** Capuana E, et al. (2022). Poly-L-Lactic Acid (PLLA)-Based Biomaterials for Regenerative Medicine: A Review on Processing and Applications. *Polymers*, 14:1153. | **5** 2025. Juläine Instructions for Use: V4 - 24.01.2025. | **6** Urdiales-Gálvez F, Benítez PA & Díaz I. (2025) Facial Rejuvenation With an Innovative Poly-L-Lactic Acid (Juläine) for Nasolabial Folds: Interim Data Analysis of a Prospective, Non-Randomized, Multicenter, Open-Label Spanish Study. *J Cosmet Dermatol*, 24(4):e70137. | **7** Zhu W & Dong C. (2023) Poly-L-Lactic acid increases collagen gene expression and synthesis in cultured dermal fibroblast (Hs68) through the TGF- β /Smad pathway. *J Cosmet Dermatol*, 22:1213–1219. | **8** Data on File. (2020) PLLA animal implantation report. Unpublished. | **9** Data on File. (2020) In vitro degradation testing report in comparison with PLLA-SCA. Unpublished. | **10** Data on File. (2020) Multi-centre, Randomised and Parallel Controlled Clinical Trial of Poly(lactic Acid Facial Filler for Evaluation of Safety and Efficacy in Correcting Nasolabial Fold Wrinkles. Unpublished. | **11** Dong Y, et al. (2024) Poly-L-lactic acid microspheres delay aging of epidermal stem cells in rat skin. *Frontiers in immunology*, 15:1-13. | **12** Data on File. (2023) The effect of PLLA particles usability, technical and clinical perspectives. Study performed by Research Institute of Sweden AB (RISE). Unpublished. | **13** Goldie K. (2023) The evolving field of regenerative aesthetics. *J Cosmet Dermatol*, 22(Suppl. 1):1-7.



JULÄINE™ is an innovation by Nordberg Medical,
a Swedish BioTech company, founded in 2017
and based in Stockholm.

With production facilities in Uppsala and Malmö,
Nordberg Medical delivers innovation to the field of
aesthetic regenerative bio-activation.

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