

ACTIVE REGENERATION

JULÄINE™ is a new facial injectable aimed to promote an active collagen regeneration with progressive results. The combination of its patented technologies, MEC SPACE and TRI-H, enable a biocompatible, high purity, and easy to disperse product which integrates naturally in the tissue.

WHY MEC SPACE?

TECHNOLOGY

- Homogenous soft microspheres
- Minimal aqueous residue
- High standard quality control
- High purity Poly- L -Lactic acid

STRUCTURE

The homogeneous and smooth surface of the microspheres make JULÄINE™ an easily dispersible product, accelerating reconstitution and facilitating injection, which leads to a soft handling technique without creating product aggregates.

WHY TRI-H?

TECHNOLOGY

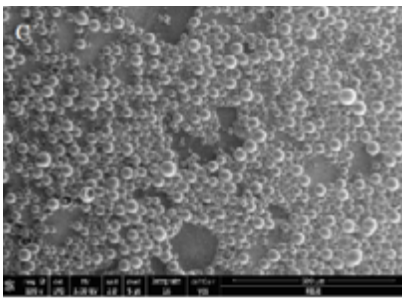
- 20-50 µm sized microspheres with high molecular weight.
- Bulk degradation, homogeneous over time for a long lasting effect
- Progressive release of high purity L-lactic acid

SIZE

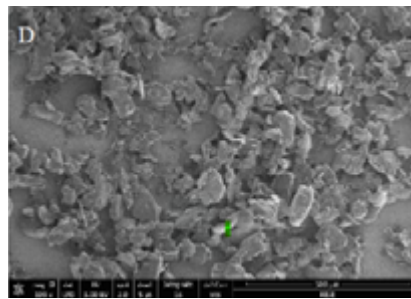
20-50 µm sized microspheres to minimize inflammatory immune response and to achieve an active regeneration effect.

Lemperle, G, de Fazio S, Nicolau P. ArteFill: a third-generation permanent dermal filler and tissue stimulator. Clin Plast Surg. (2006), 33(4), 551-565.

JULÄINE™



Other PLLA

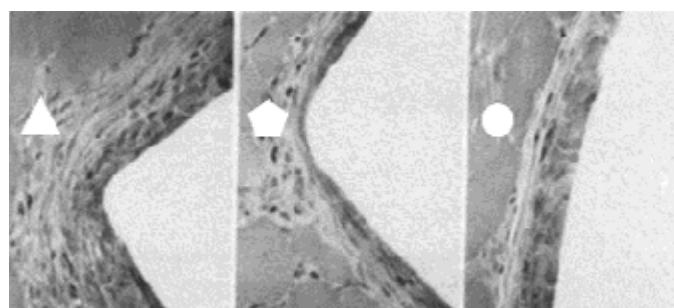


Study conducted in RISE Research Institut of Sweden AB, 2023.

JULÄINE™ reconstituted sample. Scanning electronic microscopy image. Magnification: 100X. Scale: 500 µm.

SHAPE

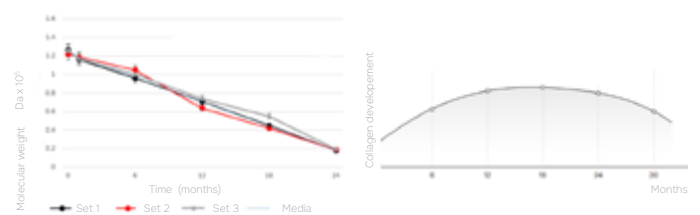
A highly biocompatible shape for good tissue integration: minimizes inflammatory effect and increases efficiency as it attains full contact with the tissue environment.



Mattaga B F et al., Tissue response to implanted polymers: The significance of sample shape[J]. Journal of Biomedical Materials Research, 1976, 10(3):391-397.

HIGH MOLECULAR WEIGHT

The high density of the microspheres, together with their shape and size, make possible a controlled degradation over time for a predictable biological effect.



Degradation curve of three sets

Model for collagen growth over time

L - FORM PURITY

L-form Polylactic Acid is the most biocompatible, less pro-inflammatory and more potent form for collagen stimulation (1.4 times more powerful than PDLA) and has no safety alerts. It degrades completely to CO₂ and H₂O without leaving a biological footprint. Purity of this form is seen in synthesis as well as in degradation of the product.



Adapt from Gao Q. et al, Superiority of poly(L-lactic acid) microspheres as dermal fillers, Chinese Chemical Letters, (2021).

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