

PLA (Poly DL-Lactide) Filler

PROFESSIONAL CLINICAL PRODUCT THAT PROMOTES
COLLAGEN PRODUCTION AND SKIN REGENERATION THROUGH
LEODERM UNIQUE TECHNOLOGY



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► Key Product Features

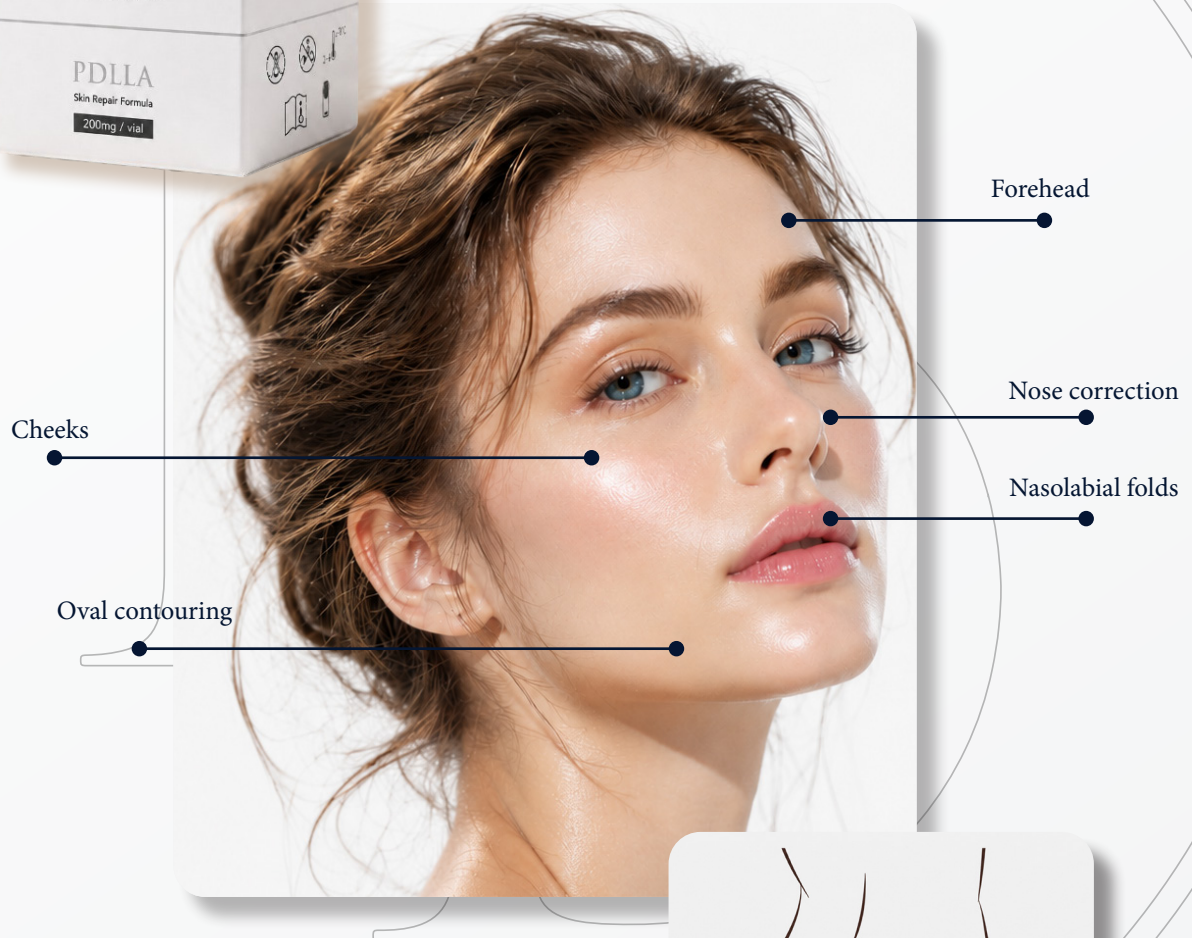
- Natural collagen stimulator to gradually rejuvenate skin texture
- In contrast to general PLA fillers, Leoderm has the perfect spherical shape and a lower injection power due to its uniform particle size.
- Less treatment time due to Reanzen's freeze-drying technique applied which allows for quicker dissolution
- No residue left in the body after a period of time due to the use of biodegradable materials.



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Product Application



Shaping hips



PLA (Poly DL-Lactide) Filler

Lasts 12-24 months

Restores volume & improves deep wrinkles dramatically

Natural collagen stimulator



Fast Biodegradability

PLA is **biodegradable** and retains the properties of biodegradable polymers that **eliminate** the need for **foreign reactive substances**.



Eco-Friendly Material

Eco-friendly material synthesized using monomers obtained from **100% renewable resources**, e.g., starch from corn and potatoes.



Proven Safety

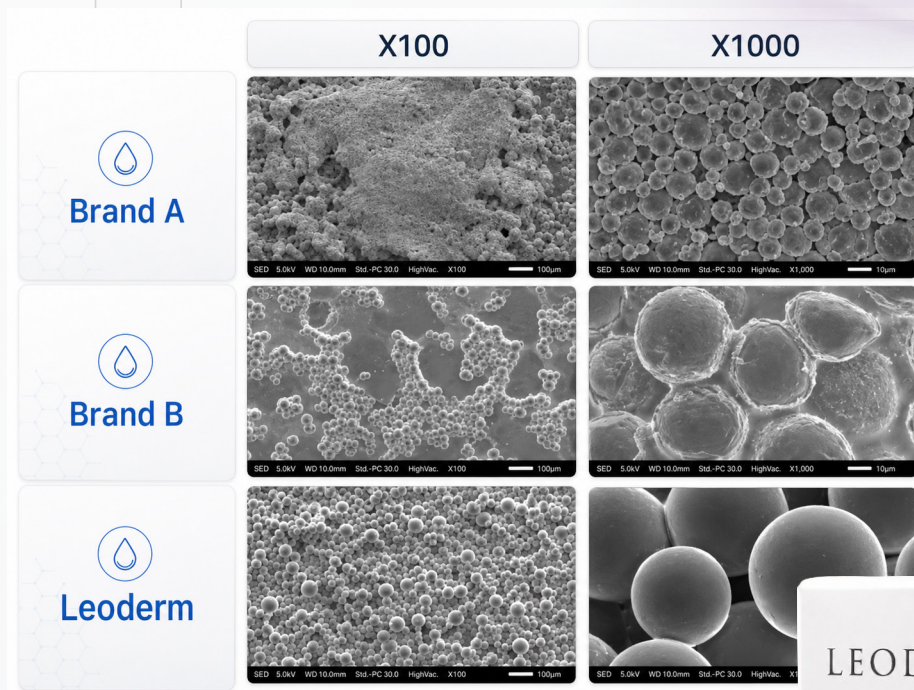
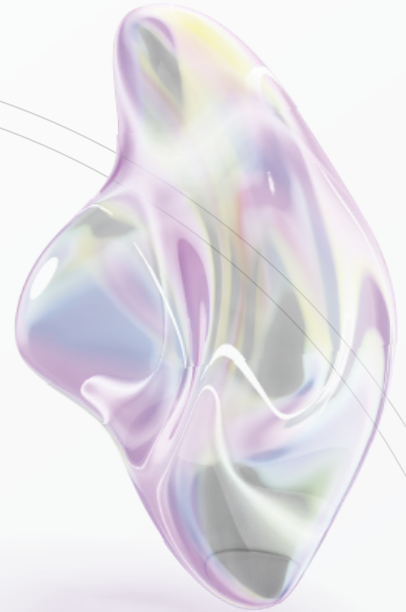
PLA has been widely used as a **medical-grade biomaterial** for decades. It is **non-toxic**, converting into lactic acid upon degradation.



Particle Comparison



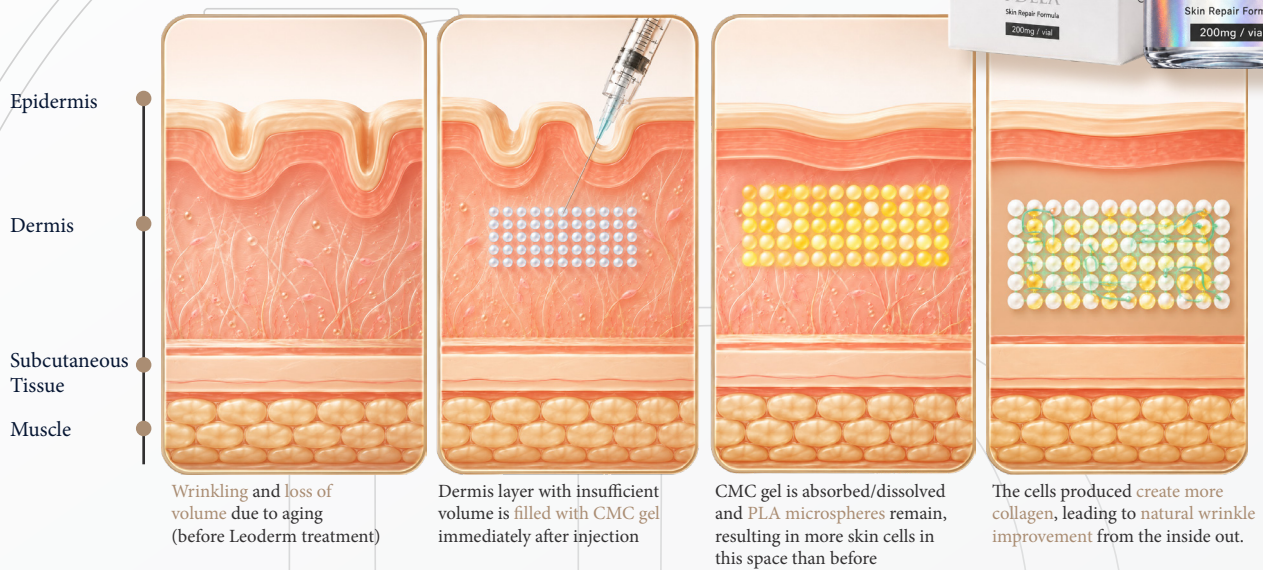
In contrast to general PLA fillers, Leoderm has the perfect spherical shape and a lower injection power due to its uniform particle size.



Leoderm™ Action Mechanism

Volume creation ► Skin regeneration

CELL CMC GEL + PLA MICROSPHERE COLLAGEN FIBER

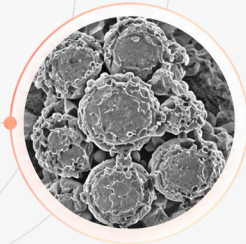
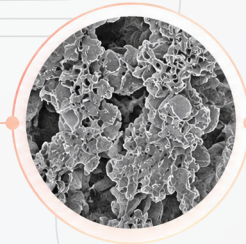
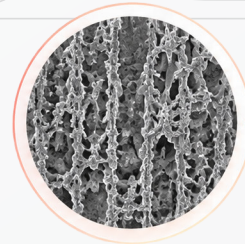


A. Bead Section SEM Image

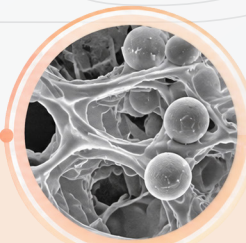
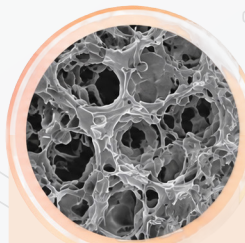
B. Bead Section SEM Image

C. PLA Microsphere SEM Image

Brand A



Leoderm



CMC remains in shape as it wraps around PLA particles

PLA particles remain spherical after CMC has dissolved

In contrast to general PLA fillers, Leoderm maintains the perfect spherical shape even after CMC has dissolved.

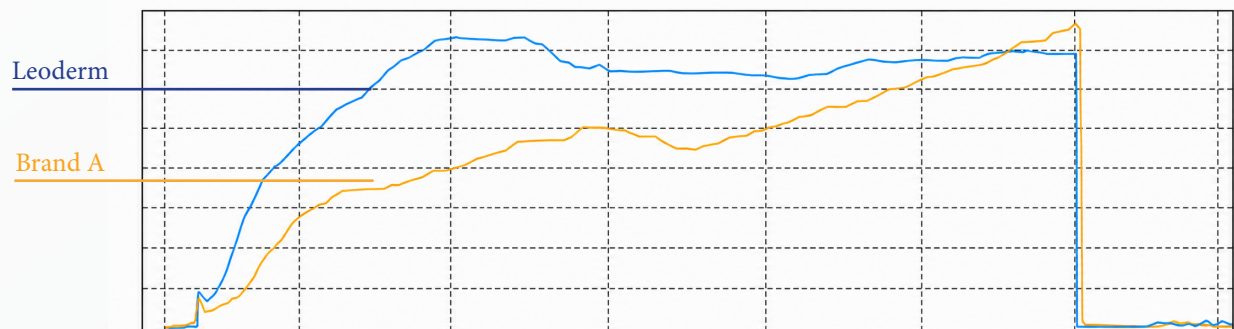


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Intrusion Force Comparison

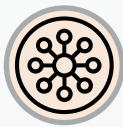


Intrusion Force Test Result



It is confirmed that the shape of the Leoderm particles is spherical and uniform as it has almost a constant rate.

Based on Reanzen's freeze-drying technology, Leoderm has outstanding viscosity and elasticity.



- Even volume creation through spherical PLA particles



- Reduced treatment time due to faster suspension time



- High safety using eco-friendly materials
- No BDDE residue to professional manufacturing system



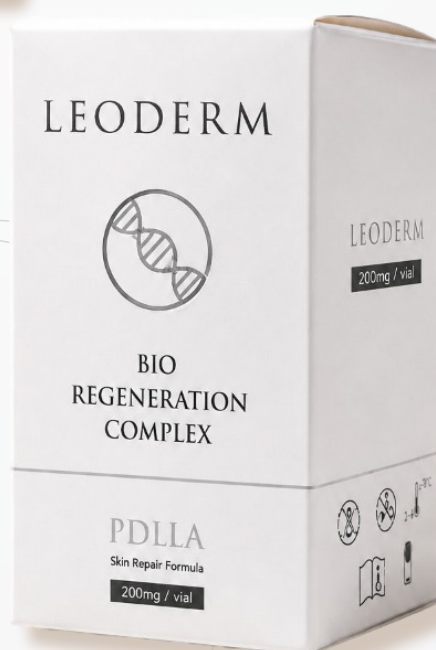
- Softer injection due to uniform particle size
- Last longer due to heavier molecular weight more than 200,000 Da

Leoderm™ Specifications



Product Description

Ingredient	PLA (Poly DL-Lactide)
Manufacturing method	Freeze drying
Molecular weight	190,000-250,000 DA
Cannula	25 G
Microspheres	30-50 um
Injection force	3.5 N
Harmful residue	0.006 EU/mg
Composition	PLA 77%, CMC 23%
Dissolution time	1 hour



PRODUCT NAME	Leoderm™ 50	Leoderm™ 100	Leoderm™ 200	Leoderm™ 400
PLA [Poly(D,L-Lactide)] & CMC, Mixed Capacity	50 mg/vial	100 mg/vial	200 mg/vial	400 mg/vial
WFI(mL)	0.35	0.7	1.4	2.8
Packaging (Carton)	1 vial			
	10 vials			
Number of Treatments	1-3			
Duration	18-24 months			
Purpose of Use	Inject product into the dermal or subcutaneous layer to improve facial wrinkles through physical skin cell recovery.			
Recommended Treatment Area	Face and Body			



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INSTRUCTIONS FOR USE

- 1 Gently open the Leoderm PDDLA bottle cap. Add 8 mL of distilled water. Alternatively, you may add 7 mL of distilled water and 1 mL of Jetokain Simplex.
- 2 Gently swirl the bottle on the table in a circular motion or in the shape of the number 8 for 5 minutes.
- 3 You will need two 10-ml syringes to draw up the solution. First, attach an 18G needle to one syringe and draw the solution into the syringe. Make sure no solution remains in the bottle.
- 4 Connect the second 10-ml syringe to the first using a connector and mix the solutions between the syringes for 15 minutes.
- 5 Let the product rest for 5 minutes.
- 6 Sterilize the injection site.
- 7 Local anesthesia is recommended. Wait at least 15 minutes.
- 8 Insert a 25G cannula (5 cm or 7 cm) into the syringe.
- 9 The injection should be administered into the subcutaneous fat layer.

Using the fan technique, apply 4 ml of the product to each side.

Note: Sharp needles must never be used

Application

- Cheek area
- Jawline
- Nasolabial fold correction
- Mid-face area
- Prohibited areas

Never use on the lips, tip of the nose, or forehead



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