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JuveLook

LENISNA<sup>®</sup>

**PDLLA + HA**

Advanced hybrid Collagen Stimulator



## What are JUVELOOK and LENISNA?

- JUVELOOK and LENISNA are a hybrid filler that combines Poly-D,L-Lactic acid and Hyaluronic acid.





<b>Type</b>	Lyophilized powder
<b>Ingredient</b>	50 mg/vial (box) (42.4mg Poly D,L-Lactic Acid + 7.5mg HA)
<b>Particle size</b>	20~40µm
<b>Injection layer</b>	Dermis
<b>Duration</b>	12~18 months
<b>Storage</b>	Store at room temperature(1~30°C). Do not freeze.





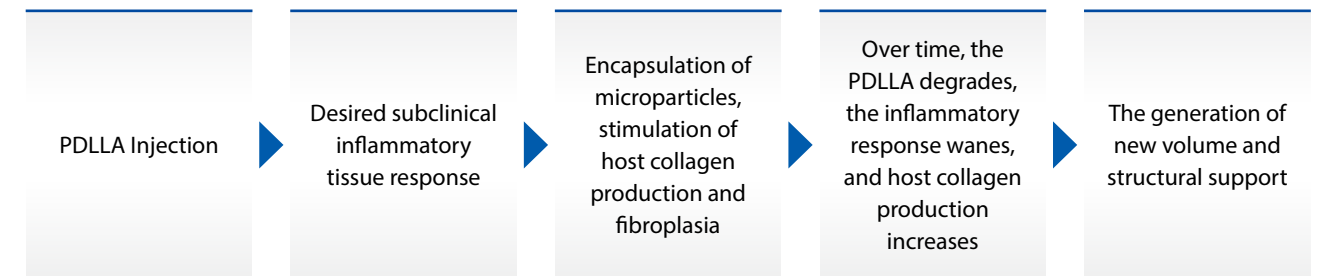
<b>Type</b>	Lyophilized powder
<b>Ingredient</b>	200 mg/vial (box) (170mg Poly D,L-Lactic Acid + 30mg HA)
<b>Particle size</b>	40~80µm
<b>Injection layer</b>	Sub-Q
<b>Duration</b>	18~24 months
<b>Storage</b>	Store at room temperature(1~30°C). Do not freeze.



## What is the PDLLA?

- Poly Lactic Acid(PLA) is a synthetic, biocompatible and biodegradable polymer.**  
It decomposes into H<sub>2</sub>O and CO<sub>2</sub> after 1-2 years.  
Used as a surgical suture, orthopedic implant material, blood vessel transplant material, etc.
- Poly-D, L-Lactic Acid(PDLLA)**  
D-form, an isomer of carbon structures, is alternately bonded with L-form to the continuous chain of the polymer

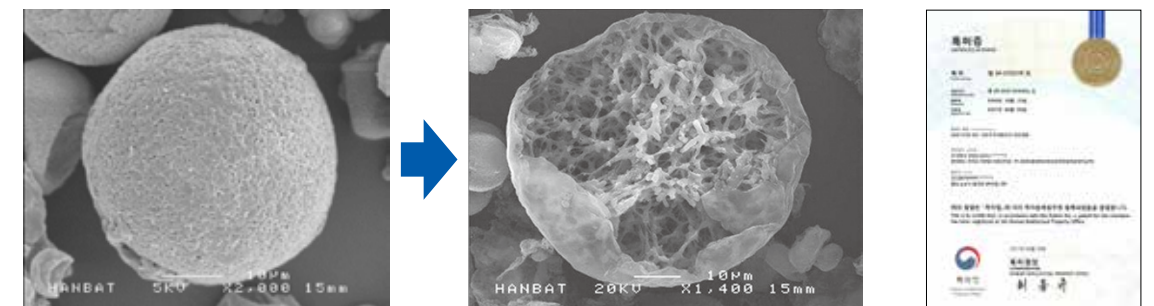
### Mechanism of Action of PDLLA



## Patented Reticular structure of the particle of PDLLA

- The particle of PDLLA, the main ingredient of JUVELOOK and LENISNA, is in the form of a reticular structure, and the manufacturing technology for this reticular structure is a patented technology that is recognized for its uniqueness. This ingredient can be very useful as a cell delivery material for tissue reconstruction with excellent abilities to reconstruct damaged tissues when it is injected into the human body.

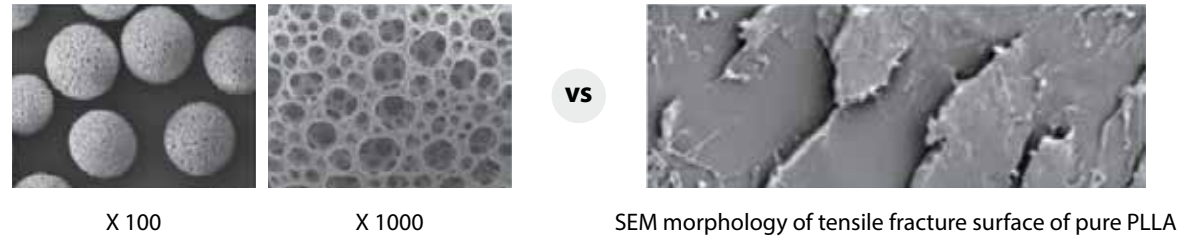
### SEM image of PDLLA reticular particles



## Safety of PDLLA

- PDLLA is a collagen stimulator with a porosity structure. It is decomposed from the inside, has better tissue compatibility, and has higher safety, such as causing less change in acidity around particles.

### SEM Image of PDLLA vs PLLA



- Since JUVELOOK and LENISNA are made of PDLLA, a kind of PLA, it provides a lower glass transition temperature and hardness compared to PLLA, and eventually, it is more easily decomposed in the human body, and thus yielding a faster decomposition time.

### Difference between PDLLA and PLLA

Polymer	Crystallization	Extension strength Elongation	Glass transition temperature (Tg)(°C)	Half-life in 37°C normal saline	Decomposition (month)
PLLA	37%	High extension strength Low elongation	60-65	4-6 months	>24
PDLLA	0%	Low extension strength High elongation	55-60	2-3 months	12~16

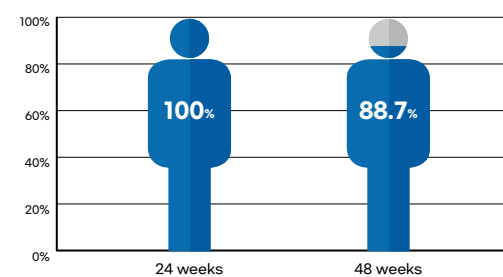
## Efficacy of PDLLA

- According to the result of checking the effects of PDLLA+HA treatments on a total of 54 patients in Korea, in weeks 24 and 48 following the treatment, the treatment success rate\* turned out to be 100% and 88.7%, respectively, which is very high.

### The treatment success rate by the period after PDLLA+HA treatment

\* The rate of subjects whose WSRS(wrinkle severity rating scale) improved by 1point or more at 24 and 48 weeks after the procedure compared to the baseline.

Ref. Clinical Study Result, Department of Dermatology, Chung-Ang University Hospital, Korea 2018



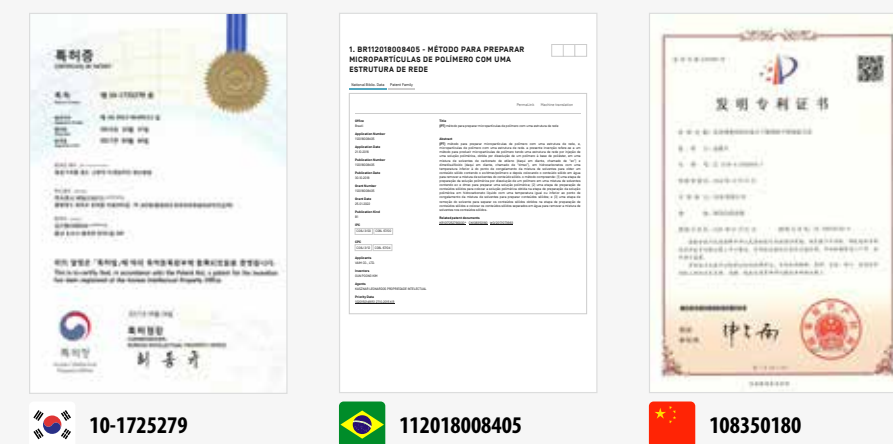
## Certificate and Patent



### Patent : Method for preparing Polymer microparticles by Spray process



### Patent : Method for producing Polymer microparticles have Network structure



## How to use

### Reconstitution

Reconstitution can be performed the day before or on the day of the procedure depending on the situation.

	The day before the procedure	On the day of the procedure
Protocol	Add Normal saline 24 hours before the procedure. Shake gently for 10 minutes before use.	Add Normal saline and mix for 30-40 minutes with a vortex mixer.
Amount of Normal saline	We have a standard reconstitution guideline for each indication. But the amount of Normal saline may differ depending on the operator's preference.	
Others	When mixing anesthetics according to the operator's preference, 1ml of normal saline can be removed and 1ml of lidocaine can be added.	

### Preparations for treatment



**JuveLook**

- 30G or 31G Needle  
Option  
- Multi-needle injector  
- RF Microneedling

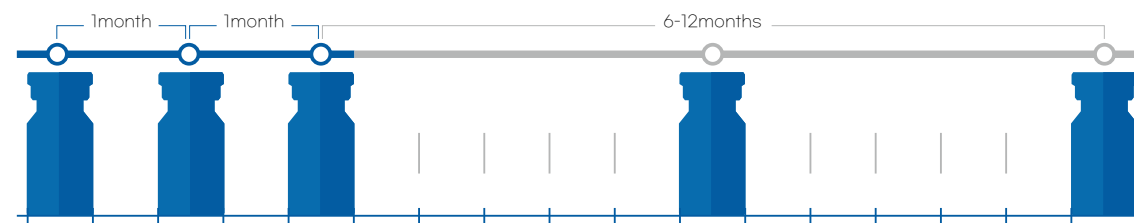


**LENISNA**

- 25G Cannula  
Option  
- Combined with HA filler

### Interval of treatments

- 1 vial is used for 1 treatment, and a total of 3 treatments are conducted at 1 month intervals.
- In order to maintain the effect even after the initial procedures, it is recommended to take treatment every 6-12 months.
- \* Recommended period for re-treatment  
: JUVELOOK – After 6-12 months, LENISNA – After 18-24 months



## Treatment Areas

### Facial areas



### Other areas

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