

PowerFill®

FIRST
CHOICE
FOR
MICROPENIS

WHAT IS POWERFILL (POLY-D, L-LACTIC ACID)?

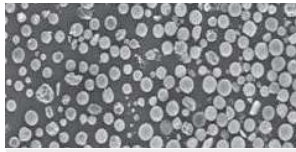
-
- The image displays two glass vials and two boxes of PowerFill 1000 microfillers. The vials are clear glass with silver caps and feature the 'PowerFill' logo and '1000 microfillers' text. The boxes are white with a gold and blue patterned base and also display the 'PowerFill' logo and '1000 microfillers' text. The background is a light blue gradient.

Natural volume lasting for a long time

Different from other fillers, PowerFill, the next generation filler, keeps more natural volume for a long time as time goes by.

PowerFill Microparticle Structure

Porous PDLLA Microsphere



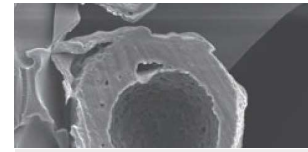
×50
(a microscope of 50 magnification)



×1,000
(a microscope of 1,000 magnification)



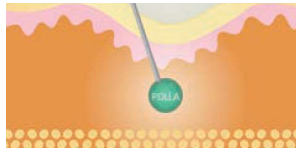
Surface Structure
high density



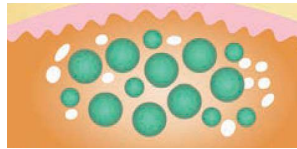
Inner Structure
Empty
※ Ref> Data on file_Regen Biotech, Inc.

Mechanism of PowerFill

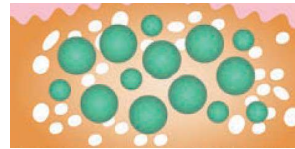
[Mechanism 1] Formation of new tissues and collagen with cell inflow between PDLLA particles



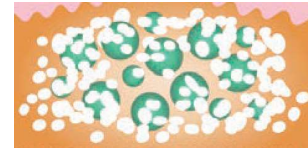
×50
(a microscope of 50 magnification)



×1,000
(a microscope of 1,000 magnification)



Surface Structure
high density



Inner Structure
Empty
※ Ref> Data on file_Regen Biotech, Inc.

Efficacy of PowerFill

1) Stimulation of new tissues and collagen production

(Production of new tissues confirmed by histological analysis)

Histological analysis– H&E Staining

- Pink(cytoplasm): Dark pink or Blue(nucleus)
- Arrows: Cells migrated into inside PLA particles



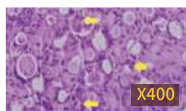
2 Weeks



8 Weeks



12 Weeks



20 Weeks

- At Week 2 after injection, cells have been growing attached to the surface of PDLLA particles and to spaces between particles. The empty spaces between particles have been filled with cells.
- At Week 8, there are no empty spaces between PDLLA particles, by being filled with cells which start to migrate into porous PDLLA particles.(yellow arrows).
- At Week 12 and 20, cells have migrated into the inner parts of PDLLA particles, and fill the inside of and spaces between the particles.

2) Verified regeneration of new dermal tissues by histological examination



After 12 weeks



After 20 weeks

The formation of collagen is to form new tissues. From Week 4, new collagen production has been generated by the cells settled in the PDLLA.

- At Week 12 and 20, collagen expression has been increased between porous PDLLA particles and inside the particles (yellow arrows).

SAFETY EVALUATION OF POWERFILL

1) PLA is safe as registered in the U.S. FDA's GRAS since 1984

GRAS (Generally recognized as safe)?

a U.S. FDA designation that a chemical or substance added to food is considered safe by experts

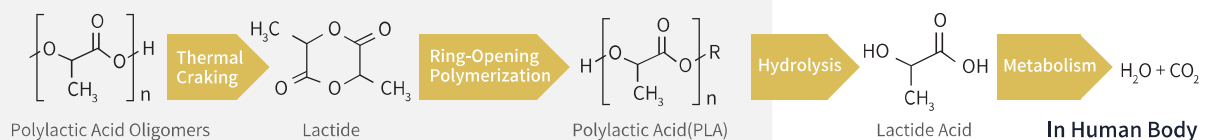
- GRAS-NO (U.S. FDA): 184.1061 (registered on Sept. 7, 1984)



2) Biodegradability Completely gone after hydrolysis

PLA, the main component of PowerFill, is a biodegradable, biocompatible polymer used for medical devices for decades.

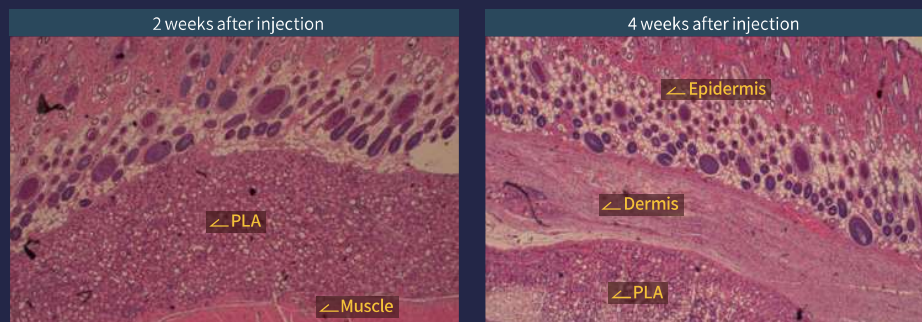
Safe and nontoxic PLA: PLA is degraded in the body through hydrolysis to lactic acid and glycogen. Then by metabolizing, PLA is decomposed into carbon dioxide and water, and is excreted outside the body.



3) No migration into other tissues

No migration of PLA particles to correct folds and keep volume in the injected areas

Location of PLA particles in the injected sites



※ Sources: A study on effectiveness and safety of biodegradable polymer particles, MPLF, as injectable fillers for the dermis, Kangdong Sungsim Hospital, Hallym Univ., 2011

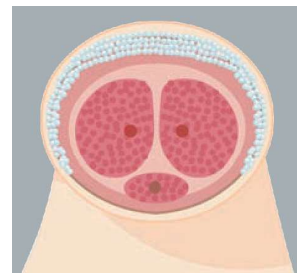
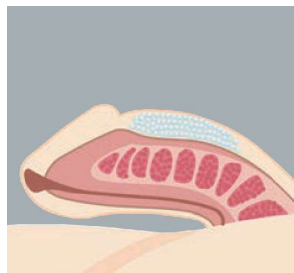
BEFORE & AFTER

PENIS

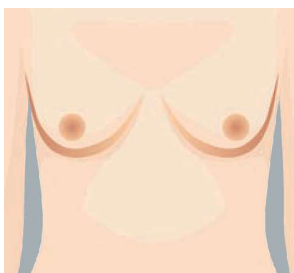
Volume effect after injection

Powerfill treatment

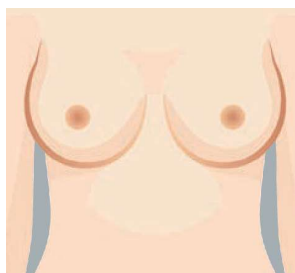
1. Non-incisional and Non-invasive procedures
2. Effective Injection for penis enlargement
3. Only 10 minutes of treatment
4. Local anesthesia
5. Ideal for day surgery
6. No stitch out
7. No internal hospitalization required



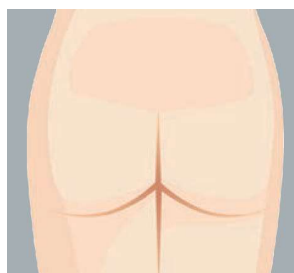
BUTT & BREASTS



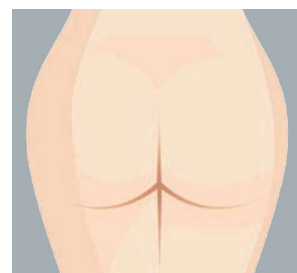
Before



After



Before



After

How to Use PowerFill

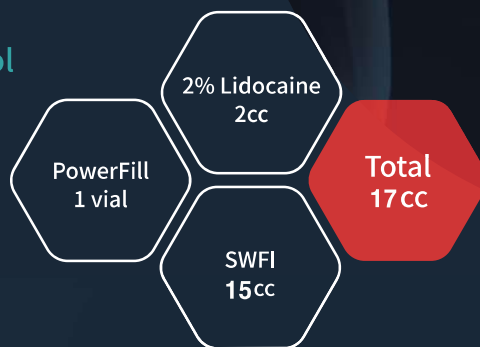
01) How to Use: Reconstitution

Ten to thirty minutes prior to treatment, make a total of 10cc suspension by adding 8cc Sterile Water For Injection (SWFI) and 2cc 2% lidocaine into the PowerFill 1 vial.

02) How to Use: Injection

Ten to thirty minutes prior to treatment, make a total of 10cc suspension by adding 8cc Sterile Water For Injection (SWFI) and 2cc 2% lidocaine into the PowerFill 1 vial.

03) Protocol



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www.regenbioglobal.com