



*Dermalax*<sup>TM</sup>  
CROSS LINKED HYALURONIC ACID

THE CHAEUM<sup>®</sup>  
— PREMIUM —

Dermalax<sup>TM</sup> & THE CHAEUM<sup>®</sup> reshapes your face, youth and life!



## Supreme & Pure monophasic crosslinked HA soft tissue filler

manufactured by a state-of-the-art technology of Hugel; its stabilized and even HA structure is achieved through **long crosslinking time at low temperature**.

**Customizable viscoelasticity & HA concentration** of Dermalax<sup>TM</sup> & THE CHAEUM<sup>®</sup> provide various treatments and indications giving optimum results and maximizing satisfaction.

High  
Elasticity

Longer  
Duration

Advanced  
Safety

Natural  
Look

| Dermalax <sup>TM</sup> | Plus                                                                  | Deep Plus        | Implant Plus       |
|------------------------|-----------------------------------------------------------------------|------------------|--------------------|
| HA Concentration       | 20 mg/mL                                                              | 24 mg/mL         | 24 mg/mL           |
| G' Value               | 80 ± 15 Pa                                                            | 160 ± 15 Pa      | 280 ± 15 Pa        |
| Lidocaine              | Lidocaine 0.3%                                                        |                  |                    |
| Injection Depth        | Superficial dermis                                                    | Mid, deep dermis | Subcutaneous layer |
| Storage                | Storage between 2-25°C, and protect from direct sunlight and freezing |                  |                    |
| Shelf Life             | 24 months                                                             |                  |                    |
| Approval Status        | CE Certified                                                          |                  |                    |

| THE CHAEUM <sup>®</sup> | Premium No.1                                                          | Premium No.2 | Premium No.3     | Premium No.4       |
|-------------------------|-----------------------------------------------------------------------|--------------|------------------|--------------------|
| Crosslinking Rates      | ●●●●●                                                                 | ●●●●●        | ●●●●●            | ●●●●●              |
| Gel Type                |                                                                       |              |                  |                    |
| HA Concentration        | 24 mg/mL                                                              | 20 mg/mL     | 20 mg/mL         | 20 mg/mL           |
| G' Value                | 80 ± 15 Pa                                                            | 180 ± 15 Pa  | 300 ± 15 Pa      | 400 ± 15 Pa        |
| Lidocaine               | Lidocaine 0.3%                                                        |              |                  |                    |
| Injection Depth         | Superficial, Mid dermis                                               |              | Mid, deep dermis | Subcutaneous layer |
| Storage                 | Storage between 2-25°C, and protect from direct sunlight and freezing |              |                  |                    |
| Shelf Life              | 24 months                                                             |              |                  |                    |

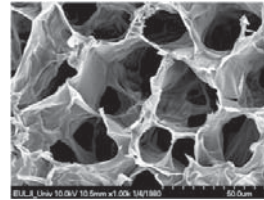
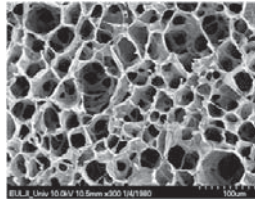
# EVEN CROSSLINKING

Even crosslinking technology offers the regular and dense lattice

## SEM (Scanning Electron Microscope)

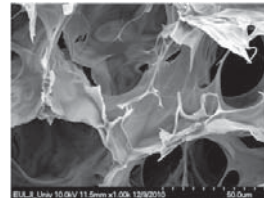
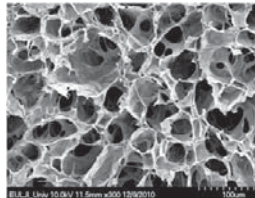
*Dermalax*™ THE CHAEUM®  
PREMIUM  
(Monophasic)

- Regular & Dense lattice



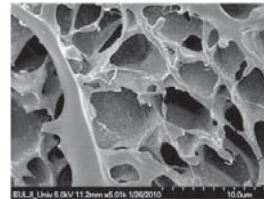
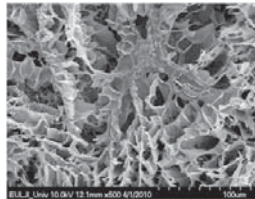
**Product A**  
(Monophasic)

- Irregular Structure



**Product B**  
(Biphasic)

- Irregular Structure

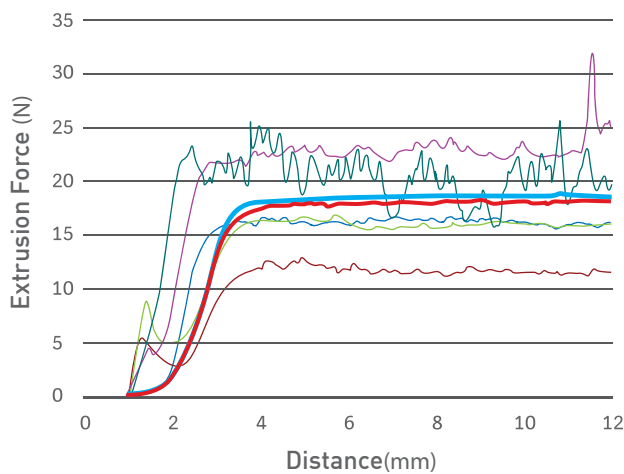


Ref) In-house

Constant extrusion force allows smooth injection

## EXTRUSION FORCE VS. DISTANCE

[Standard: 12~25N]



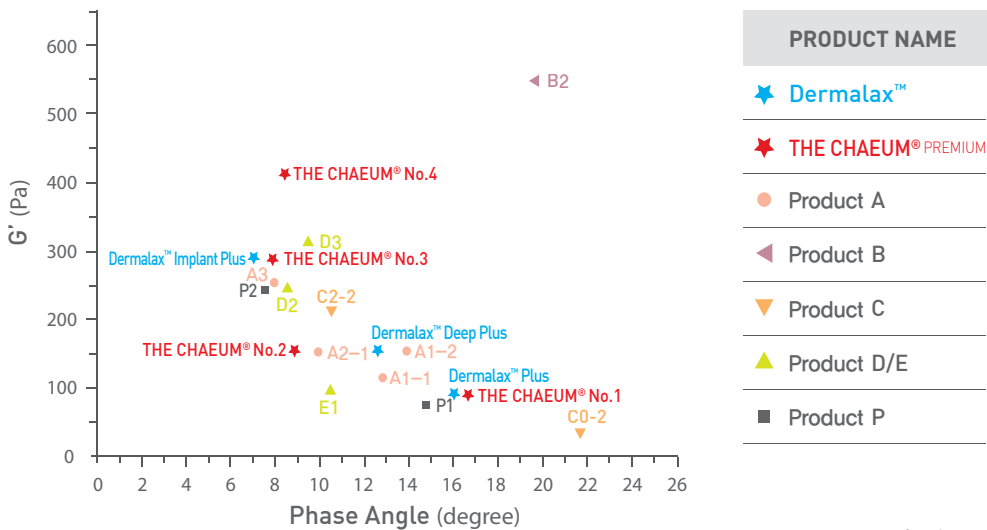
| PRODUCT NAME                | N    |
|-----------------------------|------|
| <b>Dermalax</b> ™           | 18.5 |
| <b>THE CHAEUM</b> ® PREMIUM | 17.3 |
| A0                          | 16.3 |
| A1-1                        | 11.7 |
| B1                          | 16.0 |
| C2-1                        | 23.1 |
| H                           | 20.2 |

Ref) In-house

# HIGH ELASTICITY

Superior elasticity due to low phase angle results in faster elastic recovery rate

G' VS. PHASE ANGLE

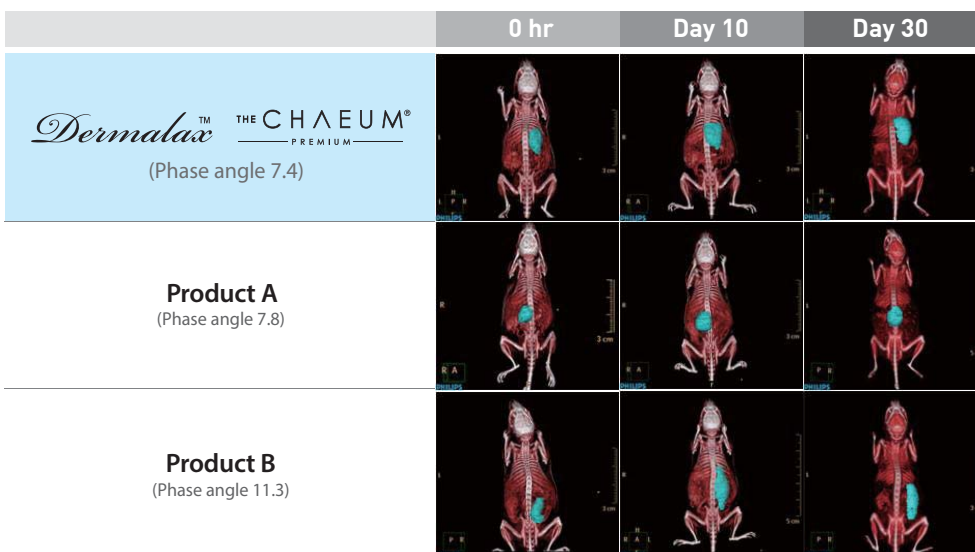


\*Phase angle: G' (elasticity) and G'' (viscosity) are determined by the phase angle. The phase angle of perfect elastic body is 0°, indicating the maximum G'; whereas that of perfect fluid is 90°, indicating the maximum G''.

By lowering the phase angle, Dermalax™ and THE CHAEUM® Premium shows the higher elasticity than other products.

Maintaining the shape with the stable formation *in vivo*  
indicates the importance of the phase angle

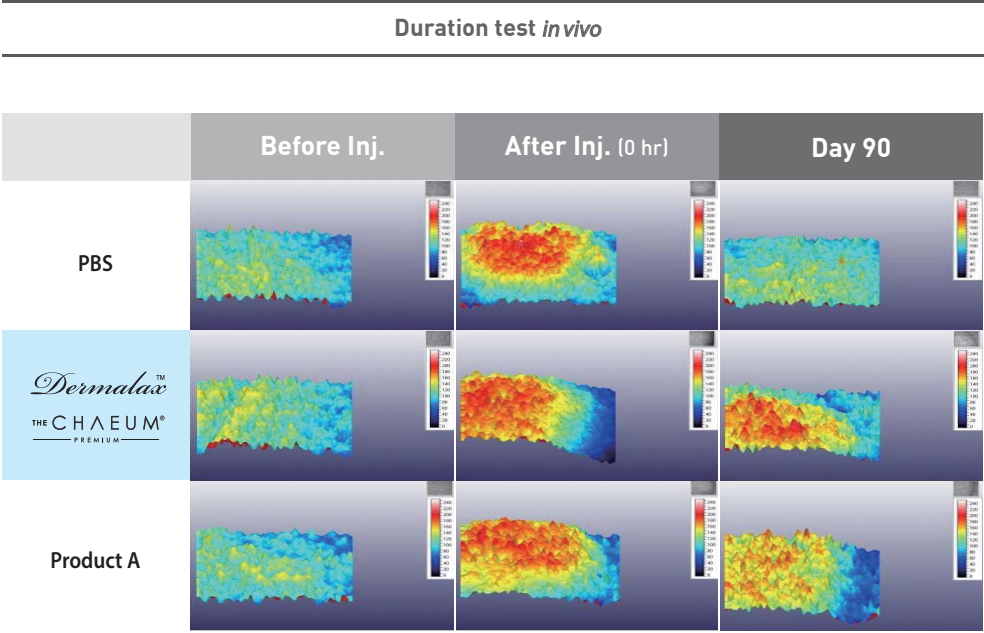
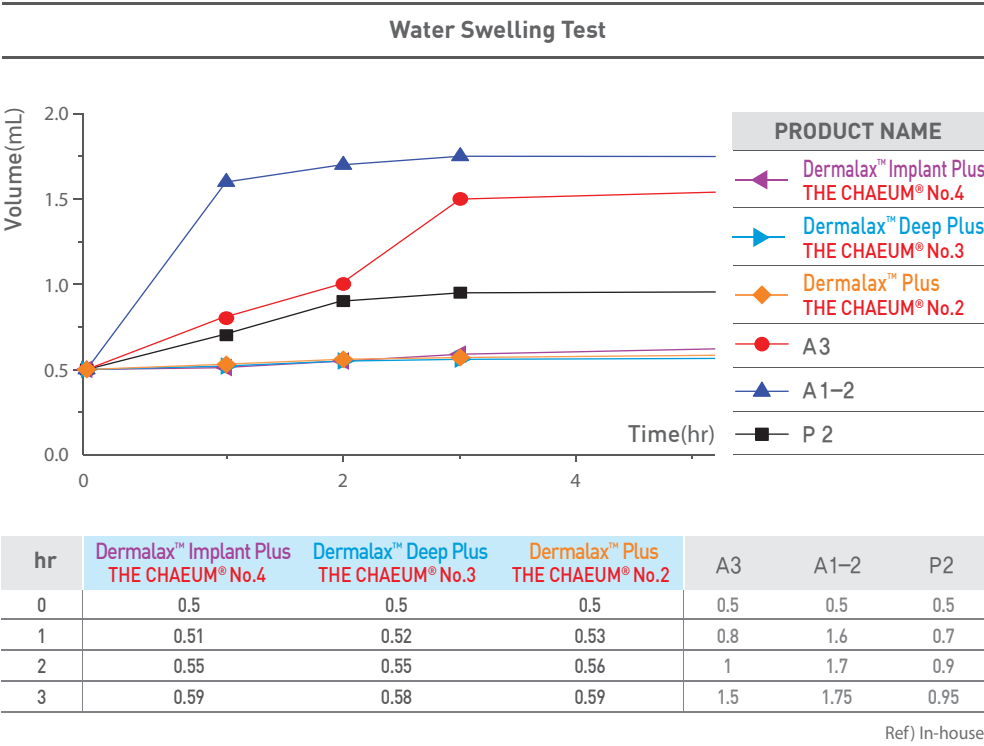
Formation test *in vivo*



Ref) Safety & Efficacy evaluation of HA (Hyaluronic Acid) Dermal filler (*in vivo*), Chung-Ang University Hospital, 2014

# 100% CROSSLINKED HA

100% crosslinked HA without non-crosslinked HA as lubricant  
minimizes the initial swelling



Ref) Safety & Efficacy evaluation of HA (Hyaluronic Acid) Dermal filler (*in vivo*), Chung-Ang University Hospital, 2014

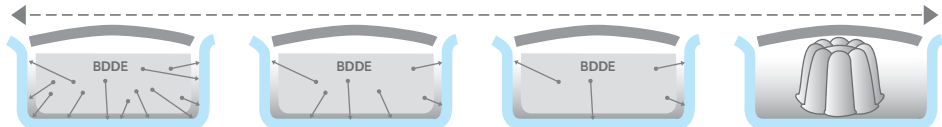
# ADVANCED SAFETY

Inflammation and allergic reaction are minimized through the strict control of endotoxin, BDDE residue, and protein load

## Dialysis

14~15 days of dialysis to minimize BDDE residue

1Day >>>> Safety is maximized



Spontaneous movement of BDDE from an area of high concentration to low concentration minimizing BDDE residue

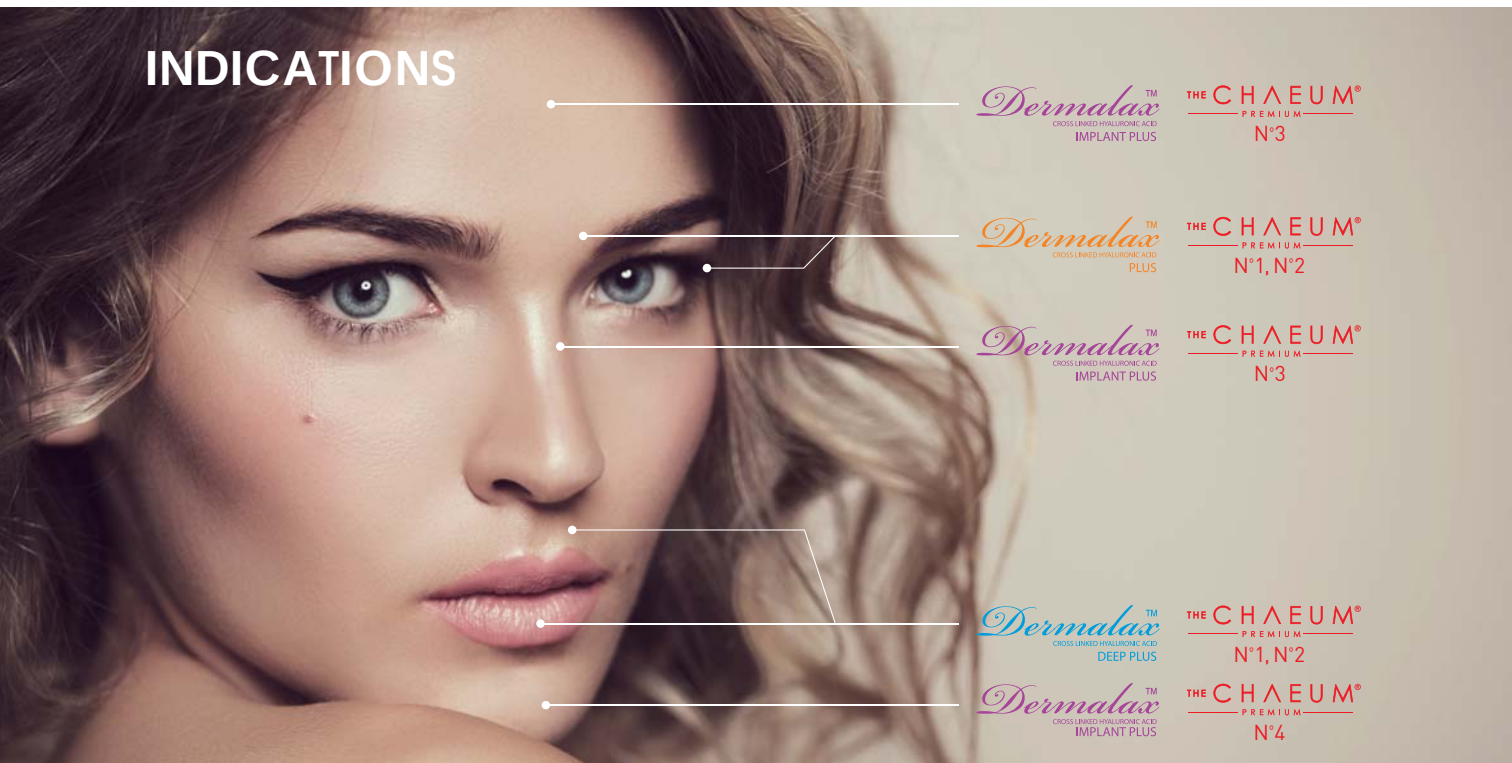
## Safety Data

|                    | Dermalax™ & THE CHAEUM® PREMIUM | Product A | Product B | Product C |
|--------------------|---------------------------------|-----------|-----------|-----------|
| Endotoxin (EU/mL)  | <0.03                           | 0.5       | 0.5       | 0.2       |
| BDDE (ppm)         | <0.5                            | <2        | 0.5       | <2        |
| Protein Load (ppm) | <0.05                           | N/A       | <0.06     | 0.05      |

(Ref) In-house

- Endotoxin ↓ = Inflammation ↓ (redness, edema, pain, fever)
- Protein load ↓, BDDE ↓ = Allergic reaction ↓

## INDICATIONS



*Dermalax*™  
CROSS LINKED HYALURONIC ACID  
IMPLANT PLUS

THE CHAEUM®  
PREMIUM  
N°3

*Dermalax*™  
CROSS LINKED HYALURONIC ACID  
PLUS

THE CHAEUM®  
PREMIUM  
N°1, N°2

*Dermalax*™  
CROSS LINKED HYALURONIC ACID  
IMPLANT PLUS

THE CHAEUM®  
PREMIUM  
N°3

*Dermalax*™  
CROSS LINKED HYALURONIC ACID  
DEEP PLUS

THE CHAEUM®  
PREMIUM  
N°1, N°2

*Dermalax*™  
CROSS LINKED HYALURONIC ACID  
IMPLANT PLUS

THE CHAEUM®  
PREMIUM  
N°4

# CLINICAL RESULTS

In a pivotal clinical study conducted for 48 weeks (pre-protocol group n=60), the safety and efficacy of Dermalax™ & THE CHAEUM® were compared with that of the reference device which was approved for its claim of 18 month-duration by US FDA

24 weeks

- **91%** of subjects showed the wrinkle improvement at 24 weeks

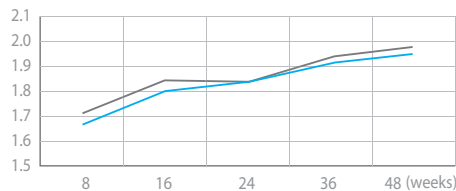
48 weeks

- **83%** of subjects showed the wrinkle improvement after 1 year

- Subjects who showed 2-level or higher improvement:

**Dermalax™ & THE CHAEUM® 64%** vs. Reference device 54%

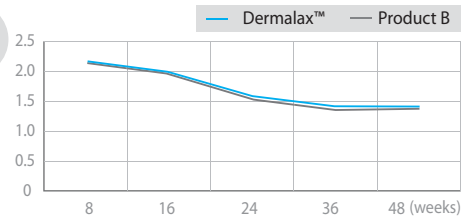
WSRS



The Wrinkle Severity Rating Scale (WSRS)

- 5 Extreme
- 4 Severe
- 3 Moderate
- 2 Mild
- 1 Absent

GAIS



Global Aesthetic Improvement Scale (GAIS)

- 3 Very much improved
- 2 Much improved
- 1 Improved
- 0 No change
- 1 Worse

## CONCLUSION

- ▶ The safety profile of Dermalax™ & THE CHAEUM® and the reference device was comparable.
- ▶ The clinical trial verified that Dermalax™ & THE CHAEUM® is an effective and safe medical device for the wrinkle improvement.

Ref) A Randomized, Multi-center, Patient & Evaluator-blind, Matched pairs, Active-controlled design Clinical Study to Evaluate the Efficacy and Safety of Injection with Dermalax (Deep) as Compared to Restylane® in correction of Nasolabial fold, Chung-Ang University Hospital, Eulji General Hospital, 2014

*Design Your Beauty!*

*Dermalax*<sup>TM</sup>  
CROSS LINKED HYALURONIC ACID



THE CHAEUM<sup>®</sup>  
— P R E M I U M —

