

Product descriptions

COLENA



CE



COLENA

BIOTECHNOLOGY

SUPREME & PURE MONOPHASIC CROSSLINKED HA SOFT TISSUE FILLER

Hyaluronic acid is a substance that is naturally produced by our body as it helps to keep our skin plump and hydrated.

However, our skin loses hyaluronic acid gradually as getting old.

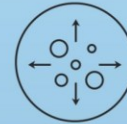
Dermal filler containing HA is very effective to replenish the deficiency of those, and good for wrinkles while moisturize skin and stimulate collagen production for anti-aging at the same time.

COLENA enhances skin volume with its high-elasticity to reduce wrinkles which is accompanied by a three-dimensional face.

It is biocompatible HA filler which can last for a long time retaining high uniformity without any residue.



Improve skin elasticity and fine



Long lasting

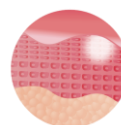


Solve dehydration problems

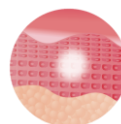


'COLENA' CE

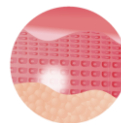
SUPREME & PURE MONOPHASIC CROSSLINKED HA SOFT TISSUE FILLER



COLENA S
Superficial
Mid dermis



COLENA M
Mid deep
Dermis



COLENA L
Deep dermis
Subcutaneous tissue

+Lidocaine

Colena (lidocaine filler) containing 0.3% lidocaine.

Product

COLENA S



- Component HA 24mg/mL, Lidocaine 0.3%
- Treatment area Eyelids, lip contour
- Packaging 1.1ml x 1syringe
- Needle size 30G
- Expiry date 24 months from manufacturing date

COLENA M



- Component HA 24mg/mL, Lidocaine 0.3%
- Treatment area Forehead, nose, cheekbone, double chin
- Packaging 1.1ml x 1syringe
- Needle size 27G
- Expiry date 24 months from manufacturing date

COLENA L



- Component HA 24mg/mL, Lidocaine 0.3%
- Treatment area Smile lines, side cheekbones, chin
- Packaging 1.1ml x 1syringe
- Needle size 25G
- Expiry date 24 months from manufacturing date

What is hyaluronic acid (HA)?

- Hyaluronic acid has high moisturizing and hydrating properties, which can promote the movement of repair cells and activate the self-healing ability of the skin barrier by opening up the intercellular space.

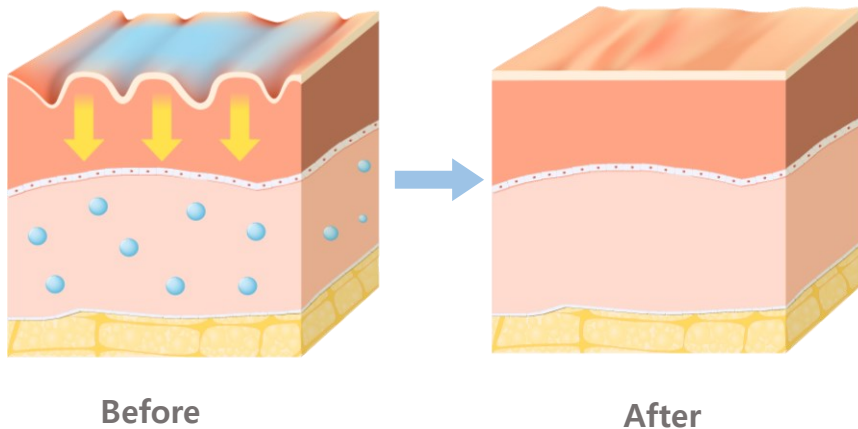
► Moisture

Hyaluronic acid moisturizes the entire skin surface by absorbing moisture up to 1000 times its own mass.

► Collagen production

Fibroblasts in the dermis are stimulated to produce collagen.

Skin improvement effect



► Antioxidant

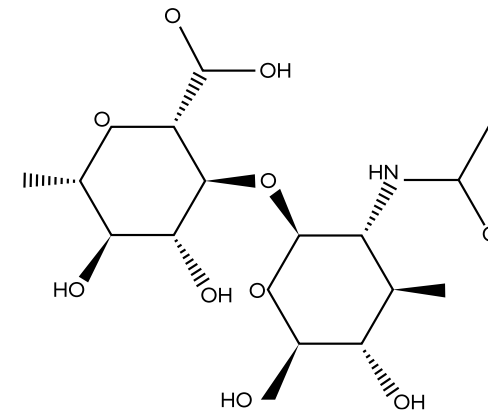
Removal of harmful free radicals by ultraviolet rays.

► Wound healing

Controls the level of inflammation and makes the wound heal faster by making more blood vessels in the wound.

► Skin care improvement

Increased function of fibroblasts.



Manufacturing facility

Aesthetic related medical device, pharmaceutical manufacture/sale company **'BIOBIJOU'**



It has the latest manufacturing, filling, packaging technologies
with the best specialists to produce.

'High quality products'

Perfect monophasic product

Biphasic filler

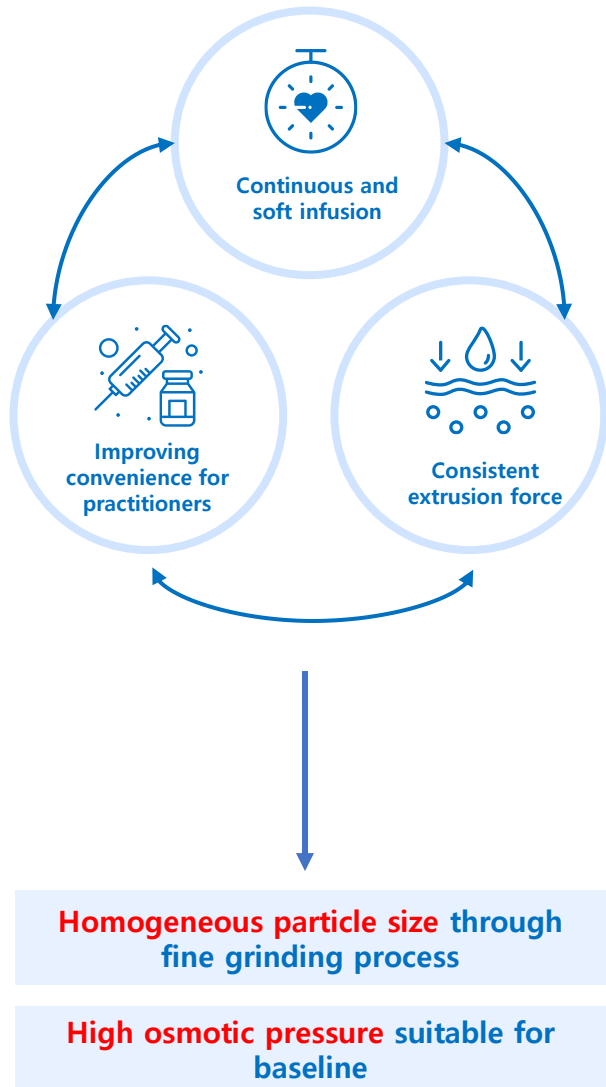


Colena

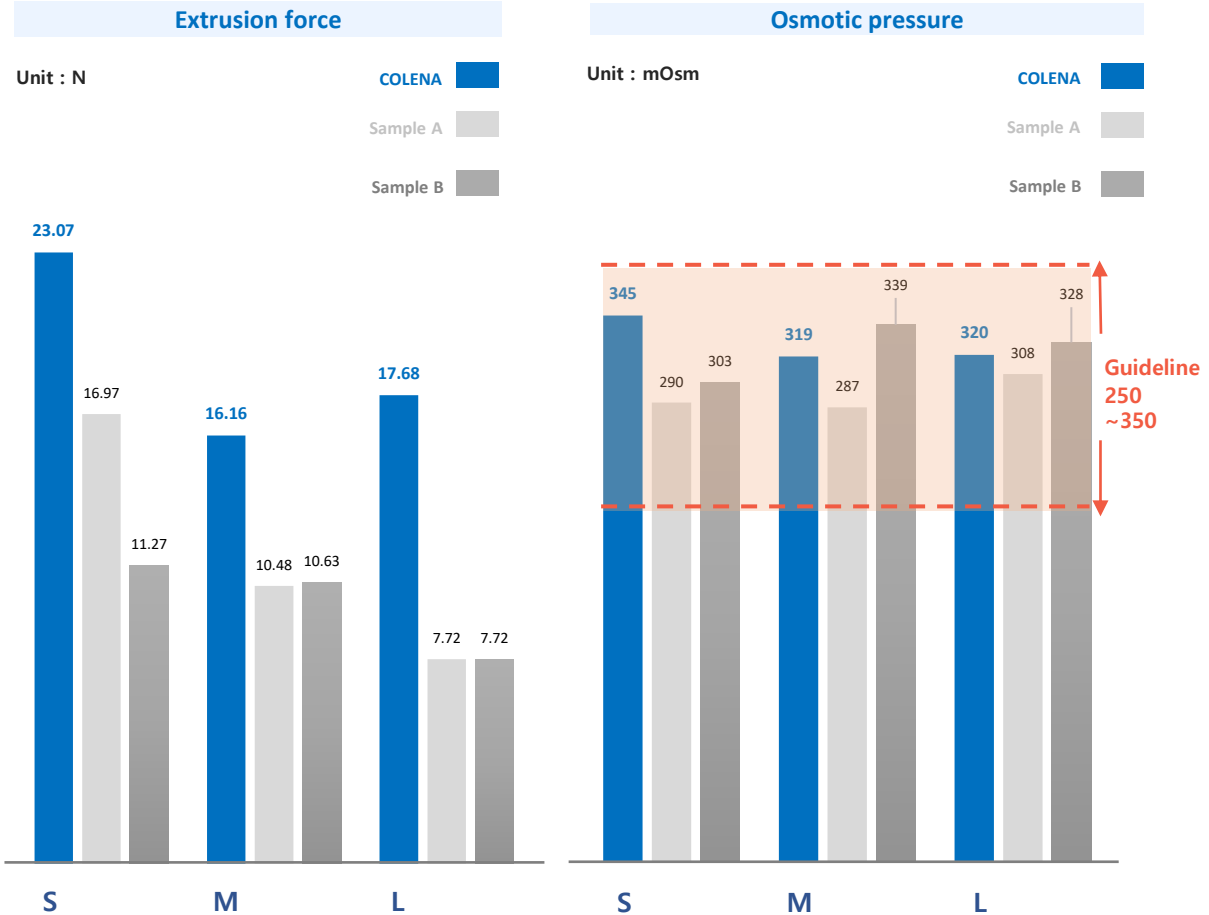


- Ideal monophasic product manufactured by using special grinding machine, consistent injection (Product has uniformity)
- Soft, uniform gel type easier to mold to achieve **natural result**

Competitiveness – Extrusion force and osmotic pressure

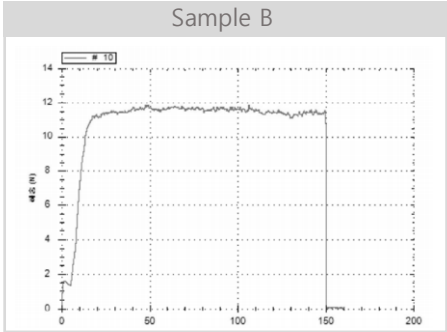
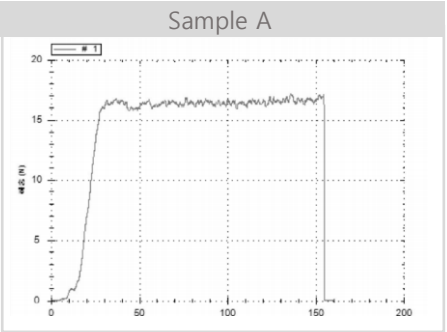
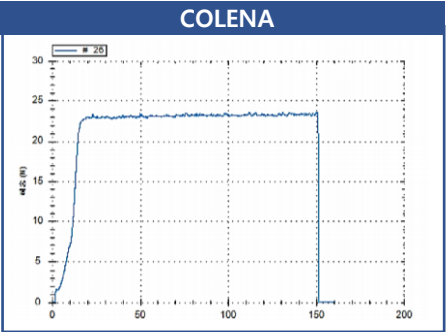


Extrusion force and osmotic pressure comparative analysis

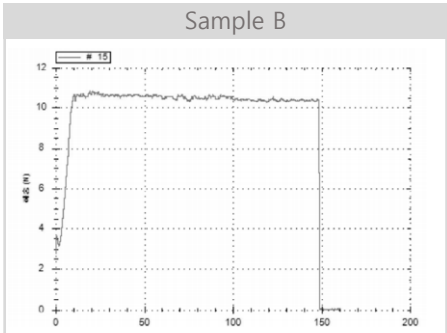
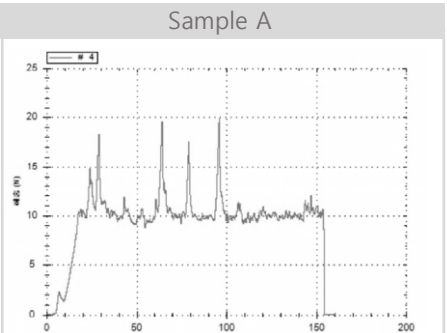
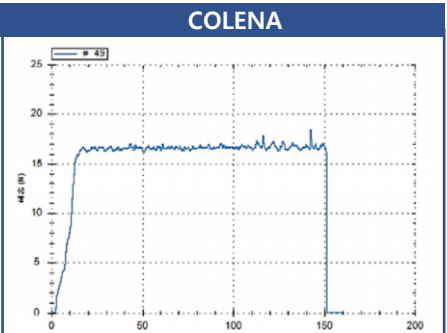


Competitiveness – Comparison of extrusion force raw data

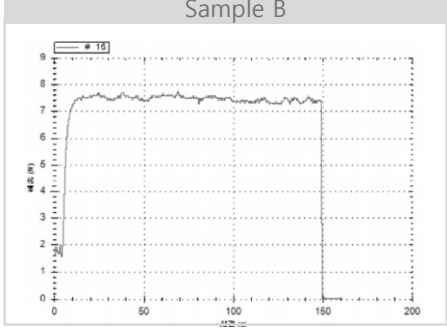
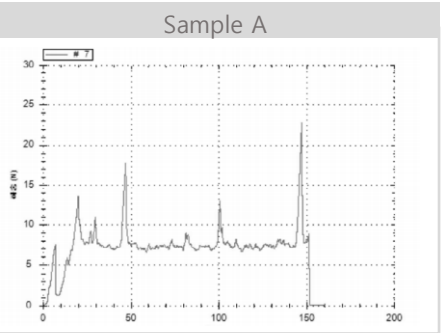
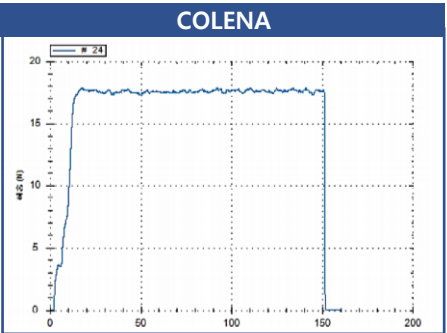
S



M



L



↓

Even and high extrusion force

↓

Relatively low extrusion force and large fluctuations in values

COLENA

→ Slightly viscous gel form

Able to realize natural volume effect,
Stable and smooth injection force

Product A

→ Low viscous gel form

Product A

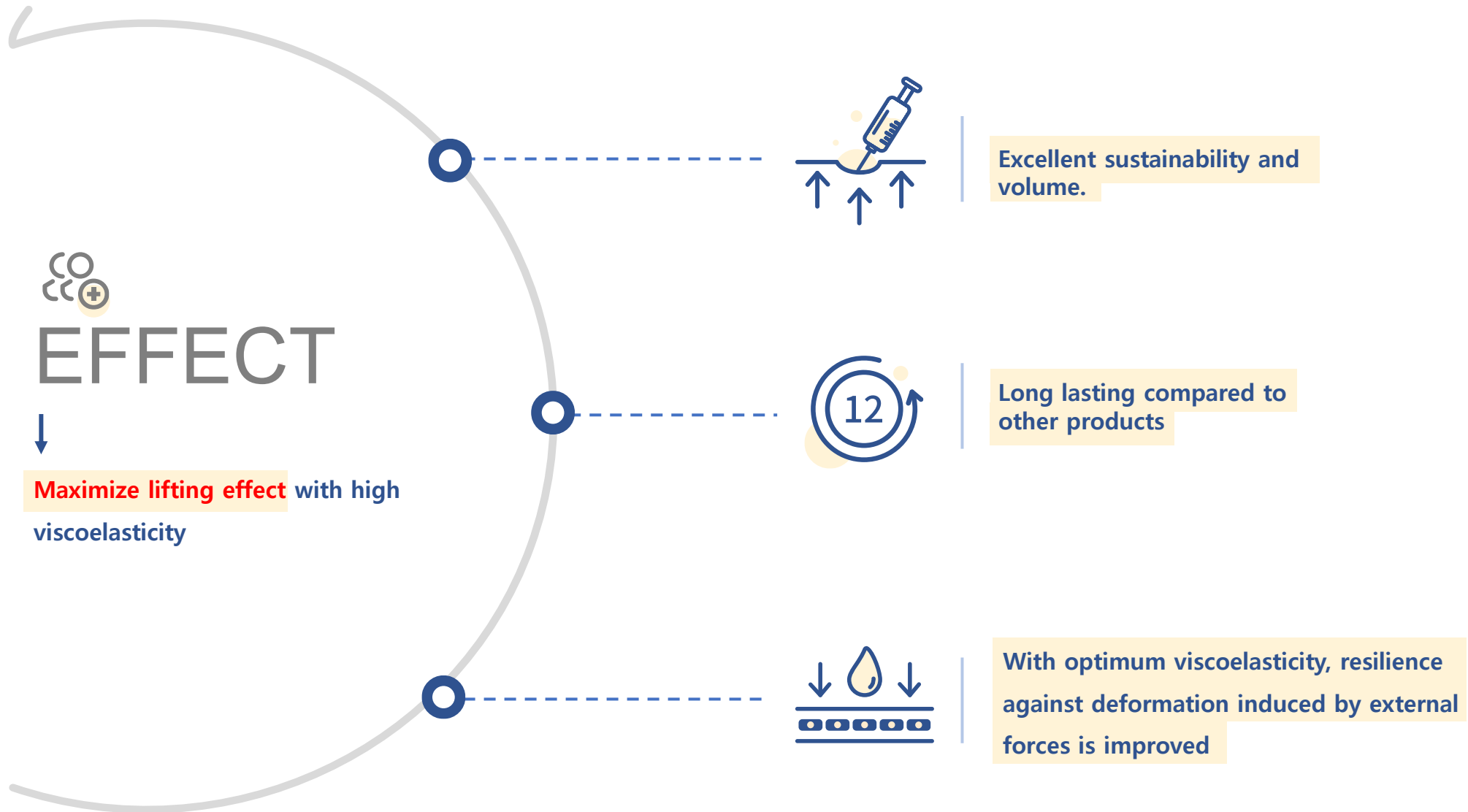
Product B

Product B

→ Highly viscous gel form



Competitiveness – Improved viscoelasticity

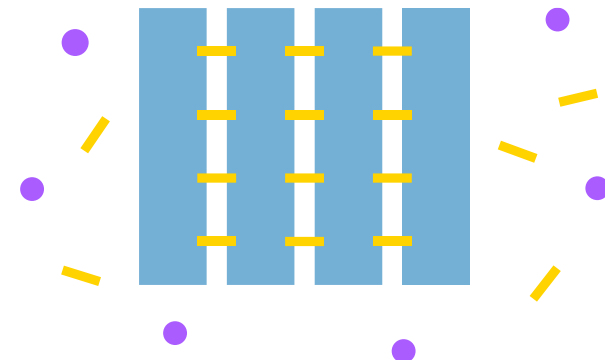


Competitiveness – Improved safety

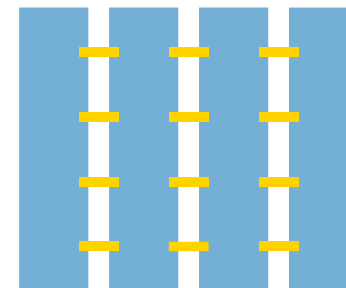
- ▶ Purified product yields **less side effects** by the removal of unreacted residual materials
 - ▶ Ideal washing process is performed to achieve a greater safe product
 - Longer washing process allows perfect washing
 - 8 days of thorough and deep cleaning process (Other companies, 1-2 times a day only)
 - Uniform product achieved due to specialized washing process (Osmotic pressure, PH)
- **Product safety improved**
- ▶ BDDE residue is under standard value = Low chance of allergy, hypersensitivity

||| Hyaluronic acid ● BDDE — Residue

Before purification



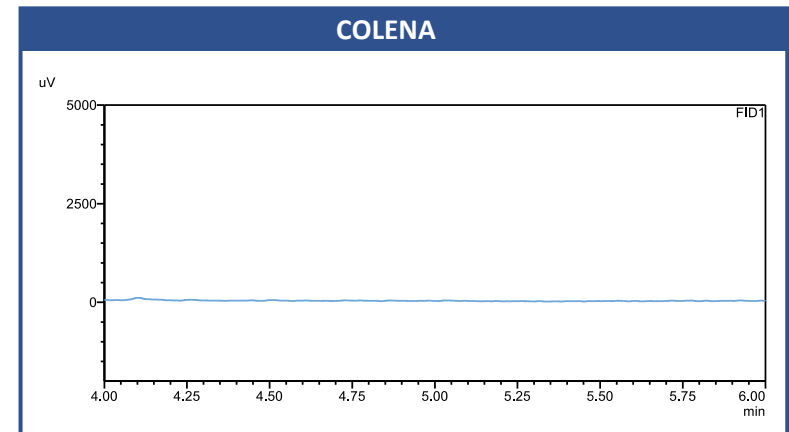
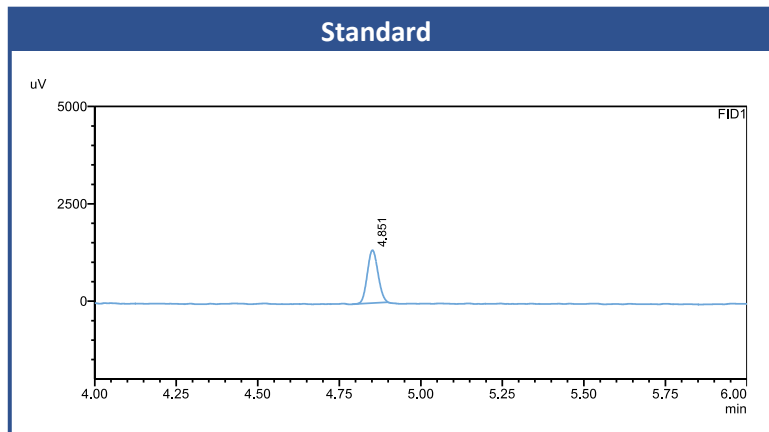
After purification



Competitiveness - Maximize product safety

↓ **BDDE** **ENDOTOXIN** **PROTEIN** **PH** ↓

BDDE scale



Minimized residual rate of unreacted BDDE and other residues through **longer washing process over 8 days** (while it's only 1-2 times per day for other companies)

Competitiveness – Optimal lidocaine content

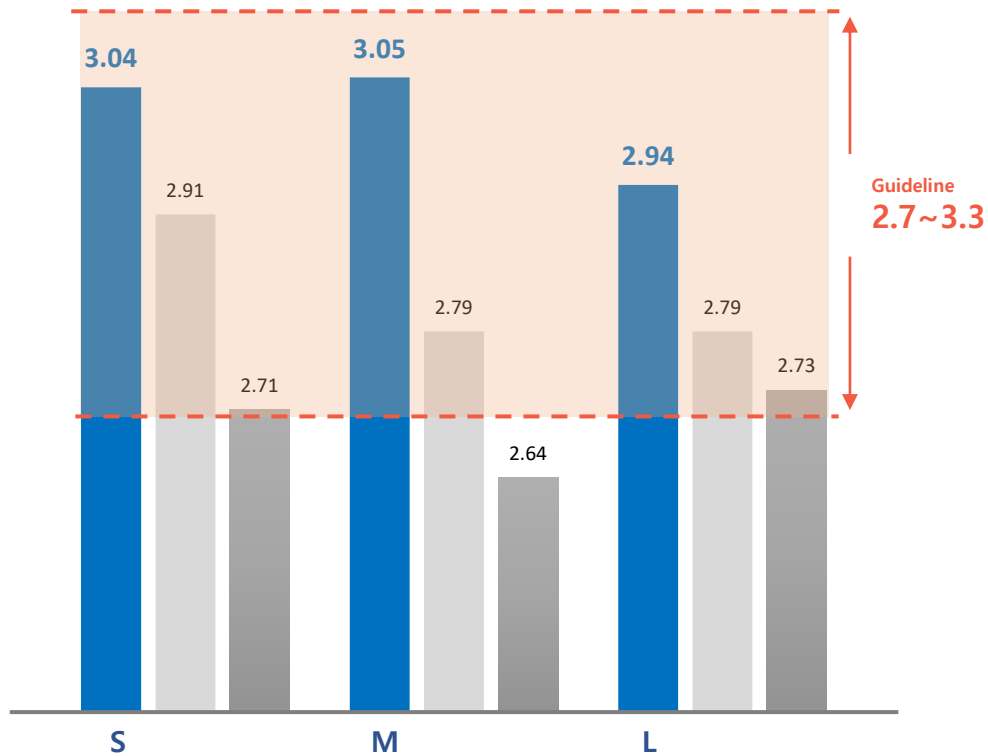
Lidocaine content comparative analysis

Unit : mg

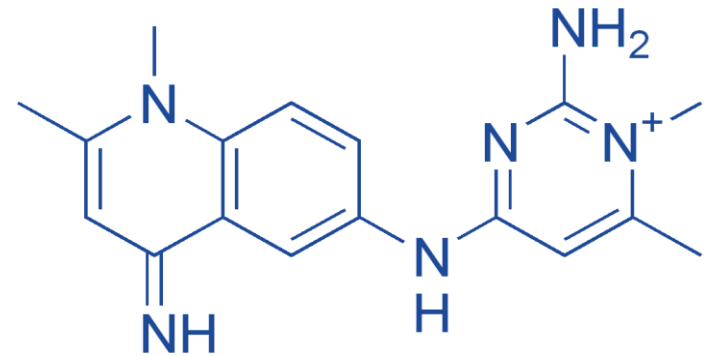
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Sample A

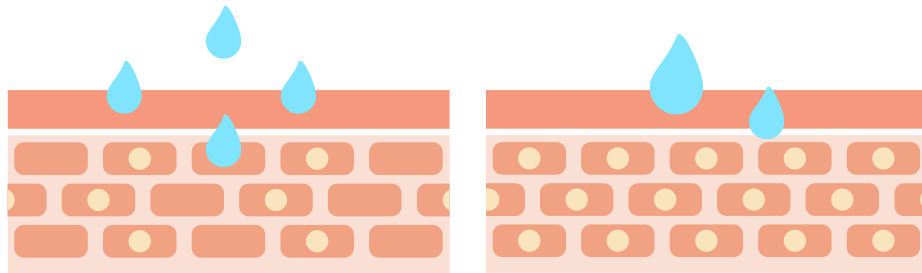
Sample B



Minimize pain during the injection
due to high content of lidocaine



Competitiveness – High HA content and special grinding process



Linear hyaluronic acid

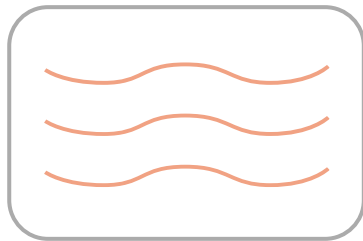
Cross-linked hyaluronic acid



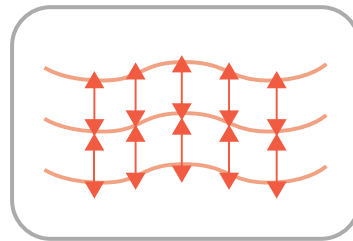
- Watery form
- Early swelling ↑
- Fine grinding process X
- Long lasting ↓

- Gentle injection
- Decomposition rate ↓
- Fine grinding process
- Long lasting ↑

→ **More natural result** through fine grinding process.



Before cross-linking



After cross-linking

HA content comparative analysis

Unit : mg

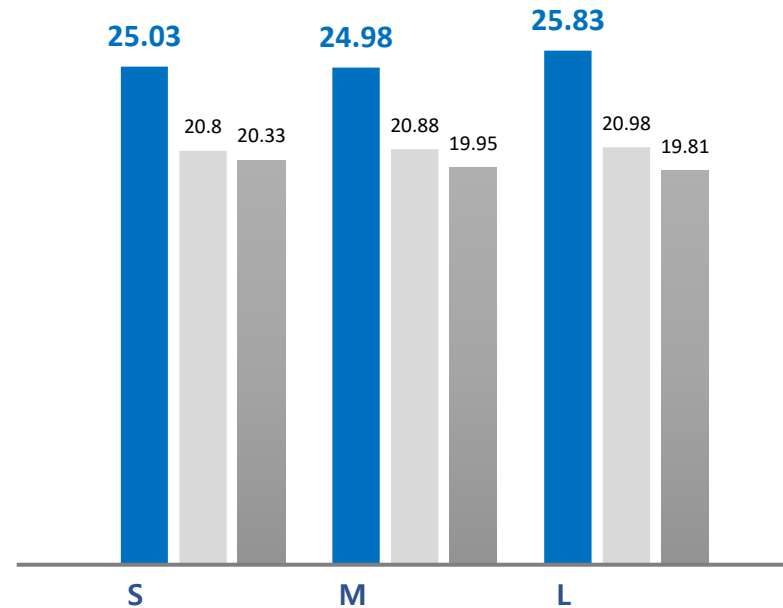
Own standard : 21.6~26.4mg

Another company standard : 18~22mg

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Sample A

Sample B



With a high hyaluronic acid content, reduce exposure to degradation enzymes and free radical in the human body to slow the decomposition rate -> **Long lasting**

Before & After

Before



After



- Age 31/F
- Nose contour
- COLENA **M** 1cc

Before

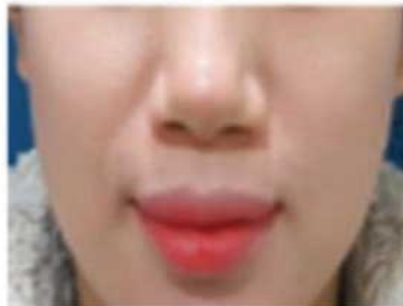


After



- Age 28/F
- Chin volume
- COLENA **L** 1cc

Before



After



- Age 30/F
- Smile lines
- COLENA **L** 1.5cc

Indication

You can repeat the treatment every 4-6 months.

The best effect can be obtained with more than 3 treatments and maintenance period is

Colena S - 4 ~ 6 months / Colena M - 6 ~ 12 months / Colena L - above 12 months.

Forehead

dosage : 0.5cc (per injection)
depth : 2~3mm
interval : 0.05~2cm

Double chin

dosage : 0.3cc (per injection)
depth : 3mm
interval : 0.05~2cm

Nose

dosage : 0.3cc (per injection)
depth : 1.5~3mm
interval : 0.05~2cm

Cheekbone

dosage : 0.3cc (per injection)
depth : 3mm
interval : 0.05~2cm

Lip contour

dosage : 0.3cc (per injection)
depth : 2~3mm
interval : 0.05~2cm

Eyelids

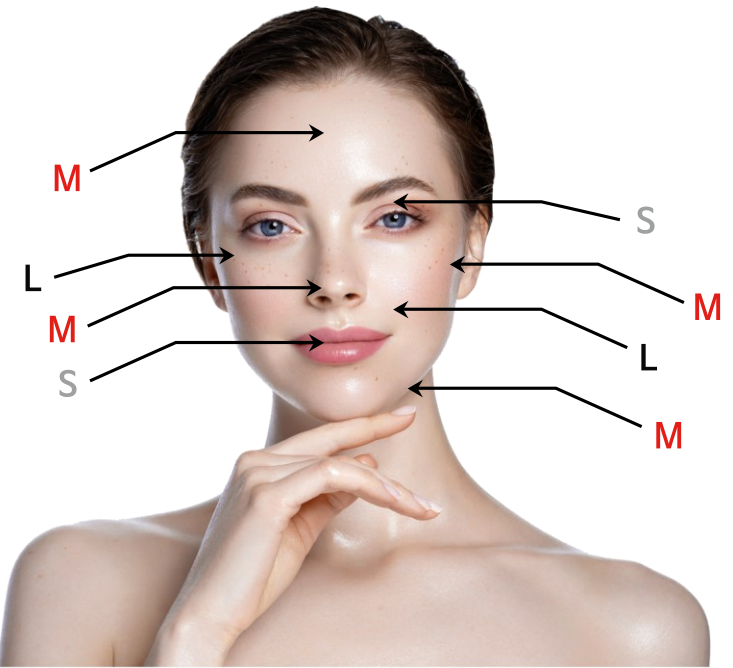
dosage : 0.2cc (per injection)
depth : 2~3mm
interval : 0.05~2cm

Smile lines

dosage : 0.3cc (per injection)
depth : 1~3mm
interval : 0.05~2cm

Side cheekbones

dosage : 0.3cc (per injection)
depth : 2~3mm
interval : 0.05~2cm



Thank you

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