

AESSOA

FILLER

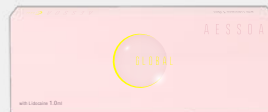
MONOPHASIC WITH LIDOCAINE



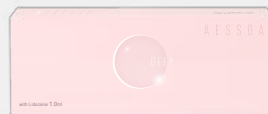
PRODUCT RANGE



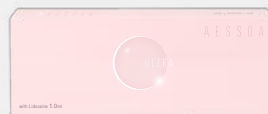
● **AESSOA SHINE : MOISTURIZING**
 HA concentration: 24mg/ml
 Volume: 1.1ml
 Lidocaine 0.3%



● **AESSOA GLOBAL : FINE LINES**
 HA concentration: 24mg/ml
 Volume: 1.1ml
 Lidocaine 0.3%



● **AESSOA DEEP : DEEP WRINKLES/FOLDS**
 HA concentration: 24mg/ml
 Volume: 1.1ml
 Lidocaine 0.3%



● **AESSOA ULTRA : VOLUMIZING**
 HA concentration: 24mg/ml
 Volume: 1.1ml
 Lidocaine 0.3%

CERTIFIED ITEM

Item Name	Tissue Repair Biomaterial (B04230.01[4])
Product Name	AESSOA filler
Certification Number	No. 17-747
Storage	Store at 2~25°C temperature, avoid light, do not freeze
Indication	Temporarily correct facial wrinkles by injecting Lidocaine containing cross-linked HA into dermis

Ref. Korean MFDS

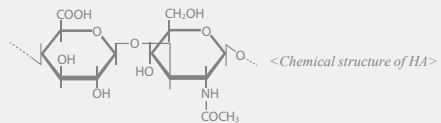
ROLE OF HA

Moisture : 1 Molecule of HA attracts 218 water molecules to increase skin moisture level

Volume : Adjust volume lost depending on the injection depth in epidermis or dermis

Collagen Production : Stimulate fibroblast in dermis for collagen production

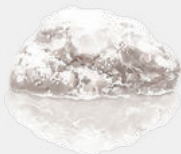
Antioxidant : Remove hazardous Free Radical created by UV light



PERFECT MONOPHASIC PRODUCT

Soft, uniform gel type, easier to mold to achieve NATURAL RESULT

AESSOA Filler



Biphasic Filler



Ideal Monophasic product manufactured by using special grinding machine,
Consistent injection (Product has uniformity)



SAFETY

INGREDIENT

- Uses ingredients(HA, BDDE, Lidocaine) approved by EDQM

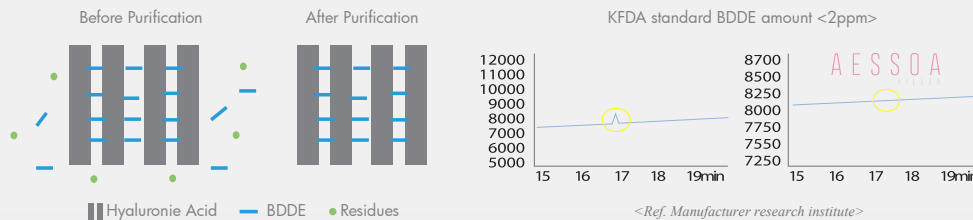


<Ref. certificates of ingredients (HA, BDDE., Lidocaine)>

PURIFICATION

- Purified product yields less side effect due to elimination of uncreated materials
- Performed ideal washing process to achieve greater safety of the product
 - Long washing process allows perfect washing
 - Specialized washing process allows consistent product properties (Osmotic pressure, pH)
- BDDE Residue is under value = Low chance of Allergy, Hypersensitivity

BDDE ↓ Endotoxin ↓ Protein ↓ pH ↓ - Reduces side effects such as redness, fever, erythema

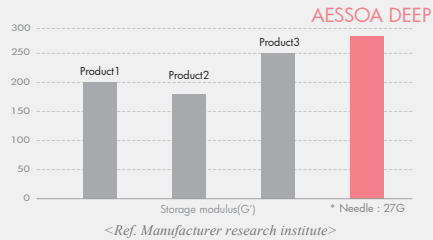


<Ref. Manufacturer research institute>

EFFECT

Viscoelasticity

- High viscoelasticity to maintain volume for long durations



High-Density Tapping Technology (h-DTP)

- Increases elasticity through physical crosslinking

Analysis Condition

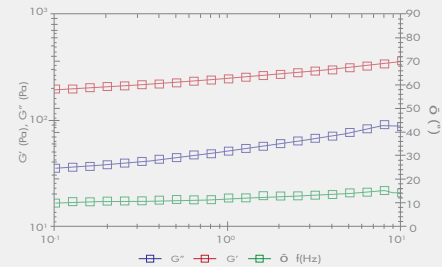
Analysis Equipment	KINEXUX Pro+	
	Model : KNX2212 Serial No : MAL1183889	
Target temperature	25 °C	
Start frequency	0.01 Hz	
End frequency	10 Hz	
Shear strain	1.0%	
Samples per decade	10	

Analysis Result

Vibrate	Viscosity at 0.1Hz	Viscosity Change Rate (%)
Before Vibration(Initial)	189.9 Pa	-
After Vibration (10mins)	193.5 Pa	1.89
After Vibration (20mins)	207.0 Pa	9.00

Frequency sweep test

Modulus and Phase angle vs Frequency

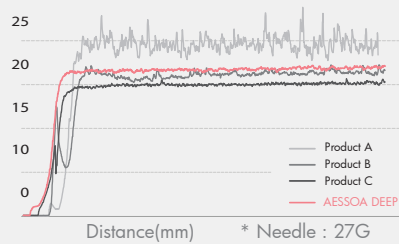


High-Density Tapping Process
= specialized manufacturing process

Increase of Viscoelasticity →

CONVENIENCE EXTRUSION FORCE

- Consistent extrusion force allows smooth injection, therefore, increased convenience



<Ref. Manufacturer research institute>

PRECLINICAL TEST

Category	Standard	Result
Appearance	Transparent and colorless viscous liquid with no foreign substances	Satisfied
pH	6.8 ~ 7.5	6.83
BDDE Residue	Maximum 2.0ppm	0 ppm
Heavy Metal	Maximum 10.0ppm	Below 10ppm
Injection Force	Maximum 30N	14.9
Osmotic Pressure	200 ~ 400 mmol/kg	318mmol/kg
Volume	Minimum 1.0mL	1.07~1.09mL
Aseptic / Toxic	Aseptic / Toxic	Satisfied
Endotoxin	Below 12.5 EU/mL	Below 0.02 EU/mL

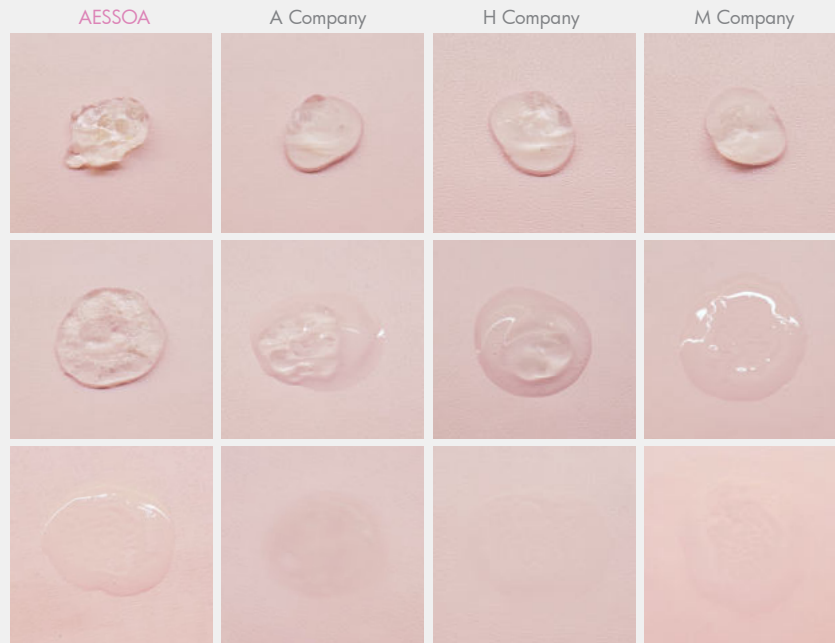
COMPARISON

Before
Hyaluronidase injection

Observed changes
after injecting
1ml of Hyaluronidase
750IU into 0.5ml of
AESSOA filler

12 hours after
Hyaluronidase injection

48 hours after
Hyaluronidase injection

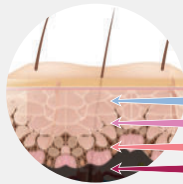


Cross-linked AESSOA filler maintained its form after injecting Hyaluronidase but after 48 hours, it was completely degraded.

Due to specialized manufacturing method (h-DTP Process), viscosity is increased and side effects are decreased because of low BDDE residue

INDICATION

INJECTION AREA	PRODUCT
Forehead	Ultra
Frown lines	Deep
Crow's feet	Global
Eye area	Shine, Global
Whole Face	Shine
Cheek enhancement	Ultra
Filtrum enhancement	Deep
Nasolabial fold	Deep
Lip enhancement	Global, Deep
Marionette lines	Deep
Chin	Deep, Ultra



	Shine	Global	Deep	Ultra
PURPOSE	Moisturizing, Pore tightening	Fine wrinkle correction	Deep wrinkle Correction, Volumizing	Volumizing, Contouring
INDICATION	Full face	Periorbital line, Lip contour	Glabella lines, Nasolabial folds, Marionette lines, Nose/forehead contour	Nasolabial folds, Chin, Body contour
INJECTION DEPTH	Superficial dermis	Mid dermis	Mid dermis	Subcutaneous
DURATION	3 months	3~6 months	3~6 months	Over 12 months
COMPLEX VISCOSITY	10~100pa-s	100~200pa-s	100~200pa-s	300~500pa-s

Ingredient : Hyaluronic acid 24mg /ml Lidocaine 0.3% Package unit 1.1ml

AESSOA

FILLER

MONOPHASIC WITH LIDOCAINE



- AESSOA SHINE
- AESSOA GLOBAL
- AESSOA DEEP
- AESSOA ULTRA