



Cross-linked Hyaluronic Acid Injectable gel with Lidocaine Kairax SUB Q

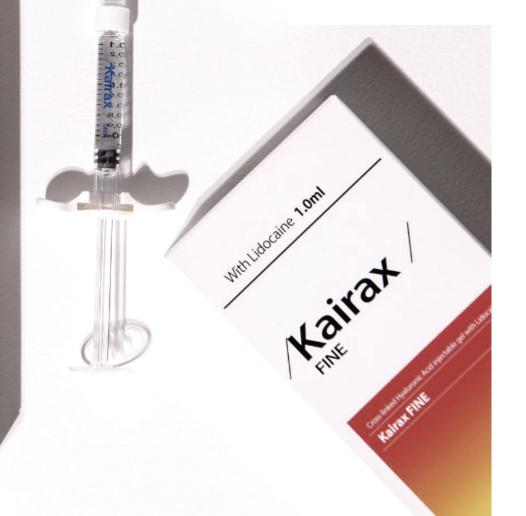
1 Box contains 1 pre-filled-syringe and 2 Needles



With Lidocaine 1.0ml

## **KAI**RAX

ine 1.0ml





**THE SAFE FILLER** Regain Volume, Regain Confidence

With Lidocaine 1.0m

Kairax

Kairax DEEP

CE CE-certified product

Sith Lidocaine 1.0ml

With Lidocaine 1.0ml

With Lidocaine 1.0ml

Main Yound

With Lidocaine 1.0ml

Kairax

Vallax verila

Werh Lidocaine 1.0ml

Kairax SUB Q

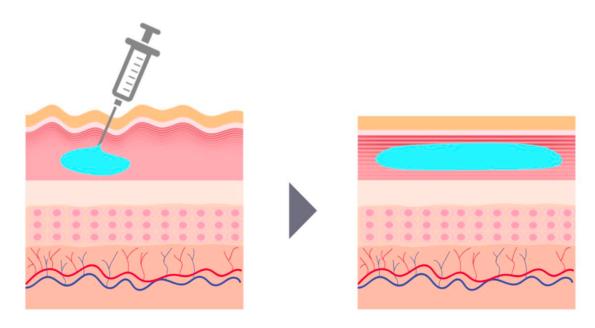
Kairax



#### What is a Filler?

Filler literally means a "filling material", a substance injected subcutaneously to improve or correct wrinkles, dents, acne scars and/or facial lines.

Fillers can be variously classified according to ingredients such as HA, collagen, calcium, PLLA, and etc. Among them, HA fillers are most widely used because of their excellent safety.

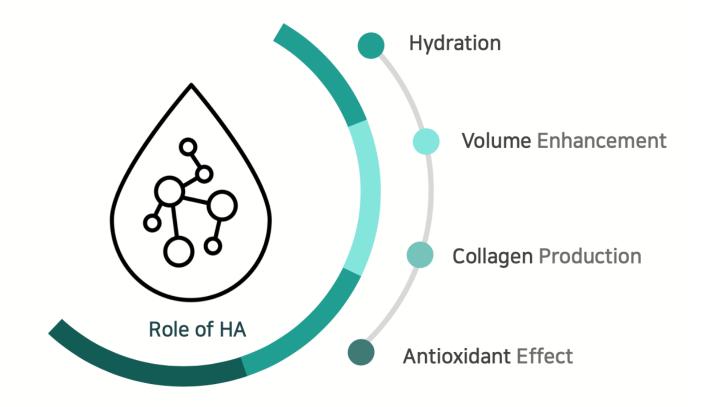




#### What is Hyaluronic Acid?

HA (Hyaluronic Acid) is a hydrophilic substance, which is also commonly called a natural moisturiser.

It can absorb 1000 times the weight of its own weight and has excellent moisture retention. It is 100% biodegradable safe component that exists in the human body.



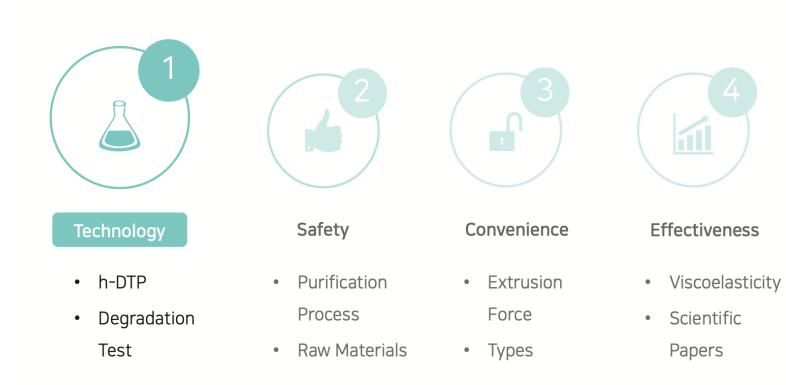


#### WHY KAIRAX?

KAIRAX is an HA filler with maximised safety, convenience, and effectiveness based on excellent technology.









# Technology – h – DTP STEP 1 . Chemical cross-linking Add BDDE

• Minimization of BDDE, a chemical cross-linking agent (About 60% of common filler BDDE input amount)

#### STEP 2 . Physical Cross-linking



- VICTORIASUN core production technology to improve viscoelasticity through physical crosslinking
- Realization of safe, high viscoelastic and cohesive filler
- Patent application number: Patent-2018-0077404



#### Technology – Degradation Test?

Change over time after injecting 1 ml of hyaluronidase 750 IU into 0.5 ml of KAIRAX

Filler	0 hour	After 3 hours	After 6 hours	After 12 hours	After 24 hours	After 48 hours
KAIRAX						
A Company Filler						
H Company Filler						
M Company Filler						
		rotains hig part o	f its shang 2/ hou	ırs after hvaluroni	dase injection	Ref. Manufacturer Research Institute

QTFILL PLUS retains big part of its shape 24 hours after hyaluronidase injection, which shows that it has high viscoelasticity and long duration compared to other fillers. On the other hand, 48 hours after the injection, it is completely degraded, indicating that the filler has a high purity which results in minimized side effects.





• Types

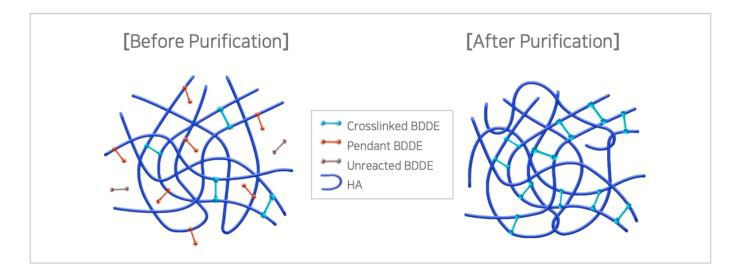
Raw Materials

Test

Papers



### **Safety – Purification Process**



Impurities such as non-crosslinked BDDE (unreacted BDDE & pendant BDDE) residues and endotoxin residues were minimized through a strict purification process.

- BDDE residue : Below detection limit
- Endotoxin residue : Below 0.1Eu/ml
- Protein residue from HA raw material : Below 0.1%

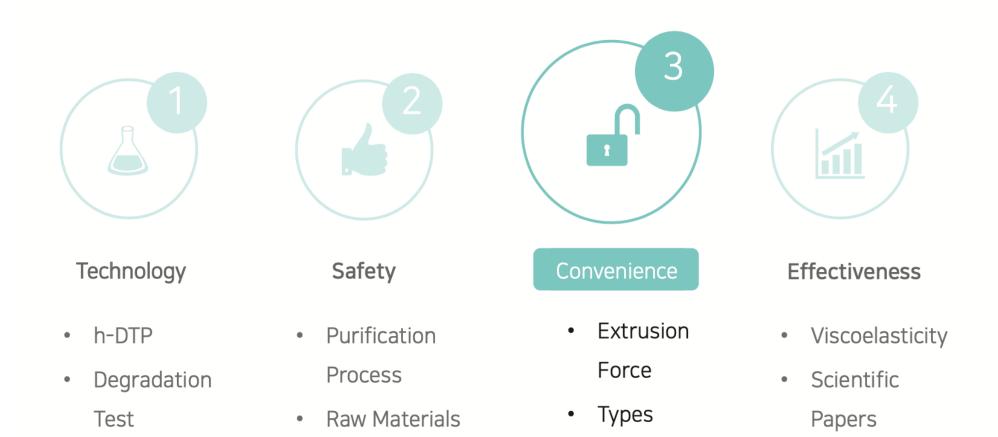


### Safety – Raw Materials

SHISEIDO CO., LTD. Kakagawa Pastory 1130 Nagaya, Kakagawa whi, Shinoka, 436 0047, Japan Phone: +81 -537 24 1131, Past +83 -537 24 2232	MODHE CATALANA, BL. Polgons Rul Gur Clear Marchiel Bunut, 13A - 08191 Rul (Barcakne - SPAB Tel (Als 63 888 06 20 Fau (Als 63 888 06 31 CERTUPICA Pondert: LIDOXIDE ETBOORLORDE MONOTRATE Batch, Br. 479 Descriter: Castoner: Batch, Br. (50): 15, 10 Batchs, 3	TE OF ANALYSIS Ph. Eur. 9/089 42 9	RAN PRODUCTOS CUBINOS Refer: 74550 e-text: Data: 05/2024		SIGMA-ALL Poded News 3.4-bataselid signality (	Certif	icate of Analysis	ajaeretlistam K. Seri Loak, NJ 9313, USA Bibliote www.ajproshidol.com 41USa: technologia com 660 USA: surtacheregicia.com
Reference Information	TESTS	SPECIFICATIONS	RESULTS	-	Product Number: Botoh Number:	220892 MH0C3992	A-o-AA	
Please find the molecular weight result from the following predict for your reference, which is calculated by Laurent's formula. Product name: Shinoida Sodium Hyakuroaato SZE Grado -EP Lot No. : G078BA Instrinsi viscosity : 2,4 m/ <sup>2</sup> Ng Molecular weight : 1,57 MDa	CRAADTERS Point Point Point In Rubani (564) In Rubani (564) In Rubani In Rubani In Rubani In Rubani IN Repetrum	Crystalline powder White or almost white Yery Soluble Freely Soluble Soluble Insoluble Conforms to Std.	Conforms Conforms Conforms Conforms Conforms Conforms Conforms Conforms		Tenut CAS Nurobac NOs. marutac Formás Formás Santhe Visiglic Gatolky Rolasse Data Tent	ALDRICH 242570-8 Митсокозовани Стонавон Стонавон 702.25 genes 50 MAY 2017	Sportitization	Feed
	BPLC Chlorids reaction	Conforms to Std. Positive	Conforms		Apparance (Color)		Coloritana	Calerless
Date: <u>Apr. 4, 2019</u> <u>9A manner</u> <u>Hargon</u> <i>Bargetti Hargot</i> <b>Qanity Assurance</b> <b>Canopulati Hargot</b> <b>Ganality Assurance</b> <b>Technical Department</b> <b>SHISBIDO CO., 17D. Kalegowa Pactory</b> <b>Pace:</b> 401-537-24-2303	SBCLIFIC TRIFS Nature (f solution S Colours of solution S pH (0.5% Sol.)	5,5% to 7,0% Clear (Max. Ref. 1 opal) Culouclass (Max. Ref. B-5) 4,6 to 5,5	6,26 % Conforms Conforms 4,99		Appearance (Fare) Antered Mystern Party (SC) Harris (S		Ligat Continues to Bioastare ≥ 65.0 %	Uşalı Conform 66.8 %
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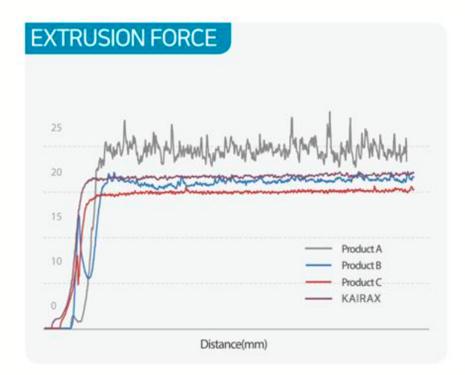
Pay extra attention to quality control, by using **EDQM listed materials** such as HA (150kDA heavy-molecular raw material), lidocaine, and BDDE to **ensure safety**.







## **Convenience – Extrusion Force**



The KAIRAX extrusion force, indicated by a purple line, is a <u>straight line</u> since the initial rise.

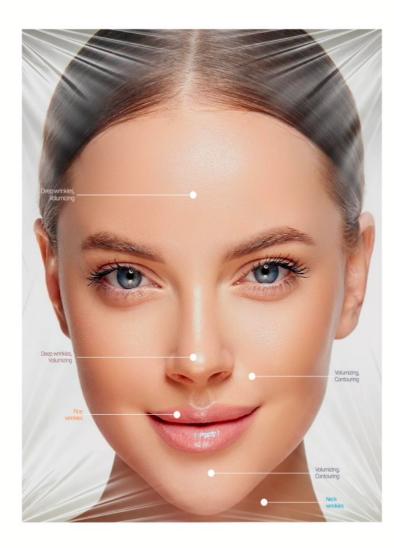
This means that when the filler is first injected, the extrusion force is high,

but the injection pressure thereafter is uniform.

Equal pressure increases the convenience of the procedure with a stable and smooth shooting.



## **Convenience – Types**



PRODUCT NAME	KAIRAX FINE	kairax Deep	KAIRAX SUB Q
TYPE	Mairax /	Kairax /	man in Kairax / Marina Marina Marina Marina
GEL			
PURPOSE	Fine wrinkle comection	Deep Wrinde comection, Volumizing	Volumizing
INDICATION	Periorbital line, Crow's feet, Lip contour	Glabella lines, Nasolabial folds, Marionette lines, Nose/ Lip contour	Nasolabial folds, Chin, Body contour
DURATION	3~6 months	6~12 months	Over 12 months
VISCOELASTICITY	60 ~ 120 pa	120 ~ 220 pa	350 ~ 450 pa

- KAIRAX is divided into 3 types:
- FINE, DEEP, and Sub-Q depending on the viscoelasticity.
- It can be applied from the entire face to the neck with the appropriate type of product depending on the application area, required amount, and desired treatment direction, etc.





Technology

- h-DTP
- Degradation
  Test



Safety

- Purification
  Process
- Raw Materials





#### Convenience

- Extrusion
  Force
- Types

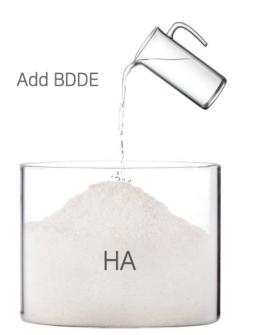
## Effectiveness

- Viscoelasticity
- Scientific
  - Papers



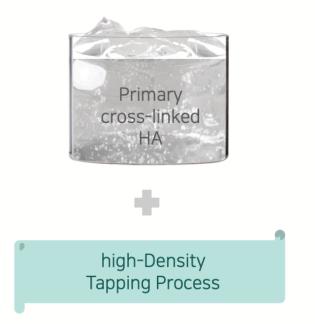
## Technology – h – DTP

#### STEP 1 . Chemical cross-linking



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#### STEP 2 . Physical Cross-linking

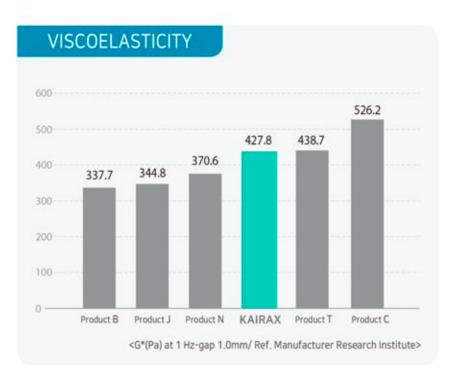


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## **Effectiveness – Viscoelasticity**

www.kairax.co.uk | sales@kairax.co.uk

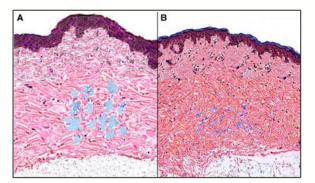


KAIRAX Sub-Q has a viscoelasticity of 427.8 Pa, which belong to a filler with high viscoelasticity. The high viscoelasticity of KAIRAX maintains the excellent volume effect for a long time.

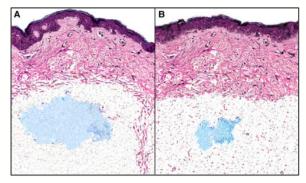


## **Effectiveness – Scientific Papers**

<sup>®</sup>Histological and Quantitative Appraisal of the Intradermal and Subcutaneous Distribution of the Hyaluronic Acid Injected into the Nasolabial Fold<sup>®</sup>



- A. Small nodules of HA into the NLF dermis 72 h after application.
- B. Significant decrease in diameter and number of the small nodules 9 months after application



- A. A Nodule diameter 72 h after application into the subcutaneous fat.
- B. Moderate decrease in the nodule diameter 9 months after application

Published on March 20, 2020 in Aesthetic Plastic Surgery, a world-renowned academic journal. Author, ANTONIO CARLOS ABRAMO, is a prominent plastic surgeon who actively conducts medical research, surgery, and education in Brazil.

#### [Summary]

- Comparison by injecting KATIRAX Sub-Q into the dermal layer and subcutaneous layer of folds of wrinkles (sample: 10 persons)
- Filler degradation occurs on the surface of and inside the gel. Dermis splits the filler gel into several nodules due to the tight collagen fibers meshwork, while subcutaneous fat layer is flexible and lightly dense, allowing homogeneous and compact distribution of the gel.
- Therefore, injection into subcutaneous fat layer has longer permanence than injection into dermis.
- KAIRAX Sub-Q acts as an effective and long-lasting volumizer due to its high concentration and cohesivity, when injected into the subcutaneous layer of the NFL (nasolabial fold).

This paper demonstrates that KAIRAX is effective HA filler for nasolabial folds.



## **Before & After**

Male / 30Y		
Forehead Temple	KAIRAX <mark>Sub-Q</mark> KAIRAX PLUS DEEP	
Male / 36Y		
Under eye Nasolabial folds	KAIRAX Sub-Q & FINE KAIRAX Sub-Q & FINE	
Female / 28Y		The second of the second secon
Nose	KAIRAX Sub-Q & DEEP	
Female / 25Y		atterness attern
Under eye Cheek Chin (Asymmetry correction)	KAIRAX DEEP & FINE KAIRAX DEEP & FINE KAIRAX DEEP & FINE	



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