

CE
2292

Singderm®

*Perfect Monophasic HA Filler for Full Face
Rejuvenation*



Hangzhou Singclean Medical
Products Co., Ltd.

- 01** Singderm® Introduction
- 02** Treatment with Singderm®
- 03** Why Singderm® Is the Best Choice
- 04** Global Market
- 05** Singclean Filler Family

CONTENT



PART 01

Singderm® Introduction

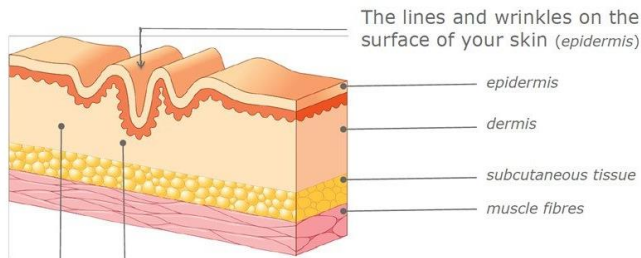
01 Singderm® Honors



China HA Filler
Innovative Brand
&
China Most Loved HA
Filler Brand

02

Singderm® Overview



A **hyaluronic acid filler** is carefully injected under the skin to correct the lines and wrinkles

Singderm® is a CE Approved monophasic hyaluronic acid dermal filler with lidocaine

- Singderm®, being **animal-origin free**, consists of modified hyaluronic acid (HA) produced by bacteria, formulated to a **concentration of 24 mg/ml and 0.3% lidocaine** in a physiologic buffer, presented in a pre-filled, disposable BD syringe.
- Indicated for injection into the **mid to deep dermis or subcutaneous** for correction of mid or deep depressions of the skin, as well as for correcting age-related volume deficit.

Certification: CE, NMPA, ISO13485, ISO9001

03

Singderm® Outstanding Features

Effective

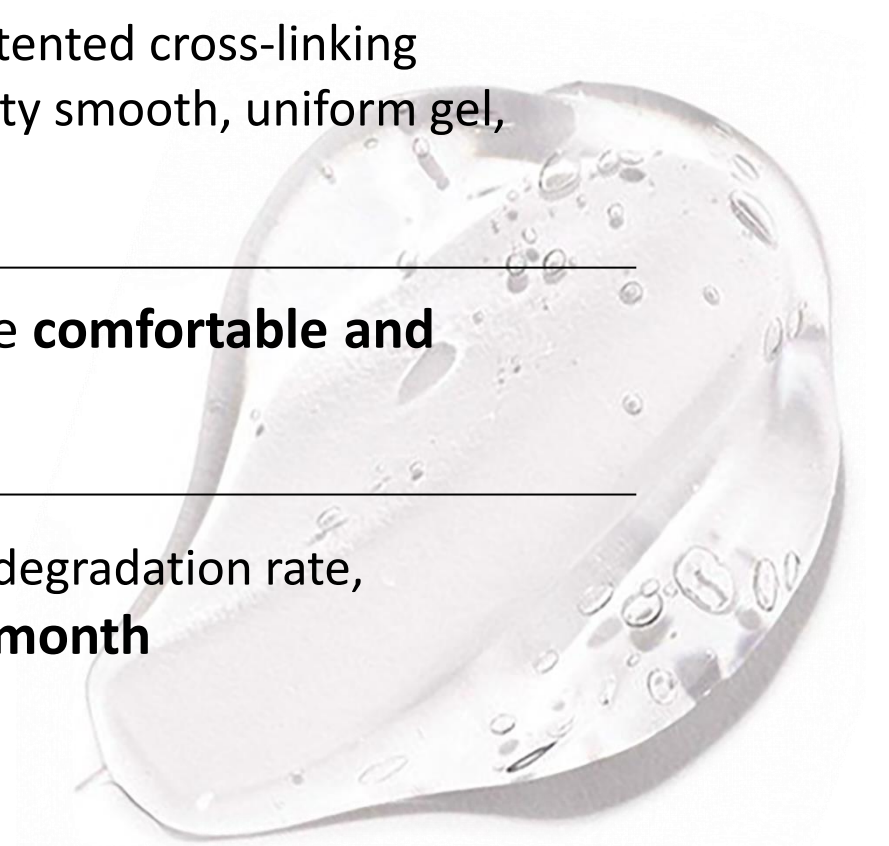
Produced by **SingLink®** unique patented cross-linking technology to obtain a high viscosity smooth, uniform gel, helps achieve a **natural** looking

Comfortable

Add 0. 3% lidocaine, creating more **comfortable and painless** experience

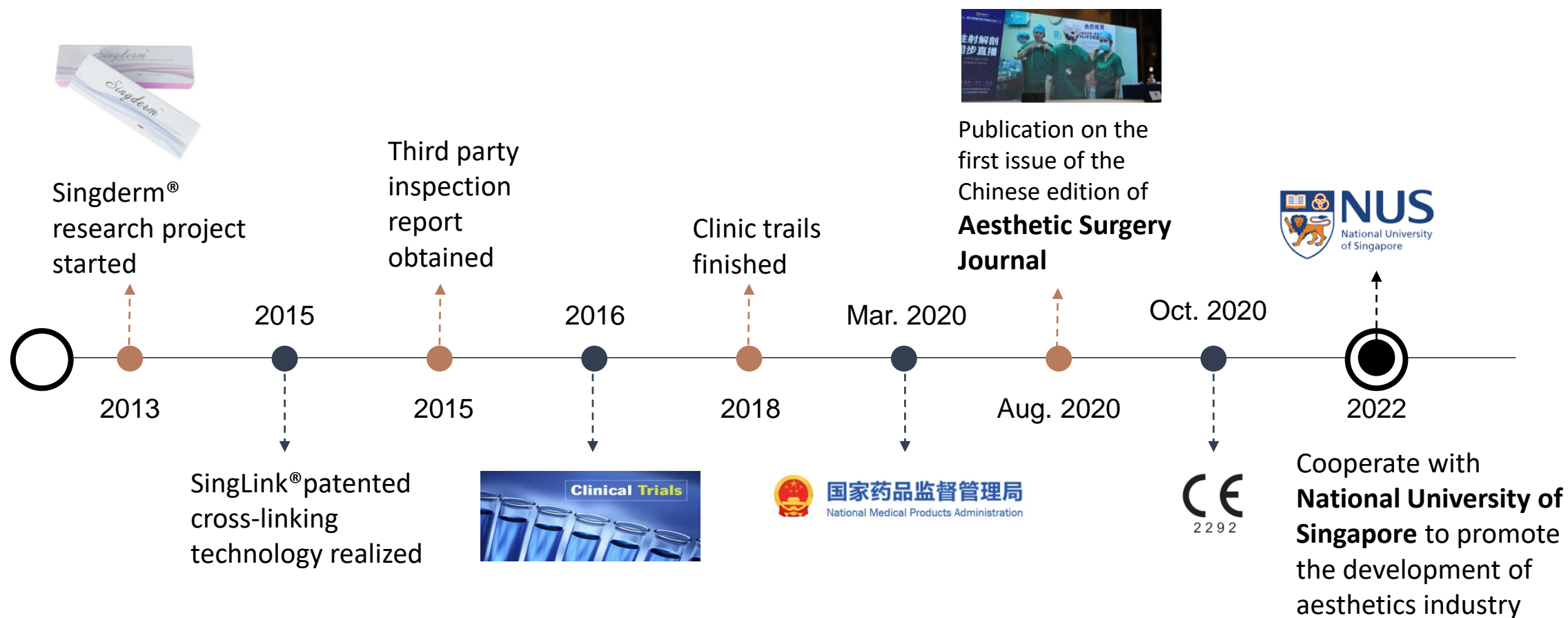
Long-lasting

Excellent biocompatibility, slower degradation rate, effectiveness rate is **92.7% at 12 month**



04

Singderm® Development History



05

Science in Singderm®



Raw Material

Reliable HA Raw Material

Singclean's non-animal origin HA is JP
(Japanese Pharmacopoeia) or EP
(European Pharmacopoeia) approved





SingLink® Technology

SingLink®, Unique Patented Cross-linking Technology

Form mono-phasic, smooth and homogeneous gel, contain no particles, soft texture without foreign body sensation





Dialysis

Safety Test Report

Test Items	Standard	Results of Testing
Appearance	The gel should be transparent and free of foreign matter	Qualified
pH	6.5-7.5	7.2
Protein Content	≤0.1%	Qualified
Crosslinking Agent Residue	<2.0μg/g	Not detected

The data comes from clinical and internal test data reports

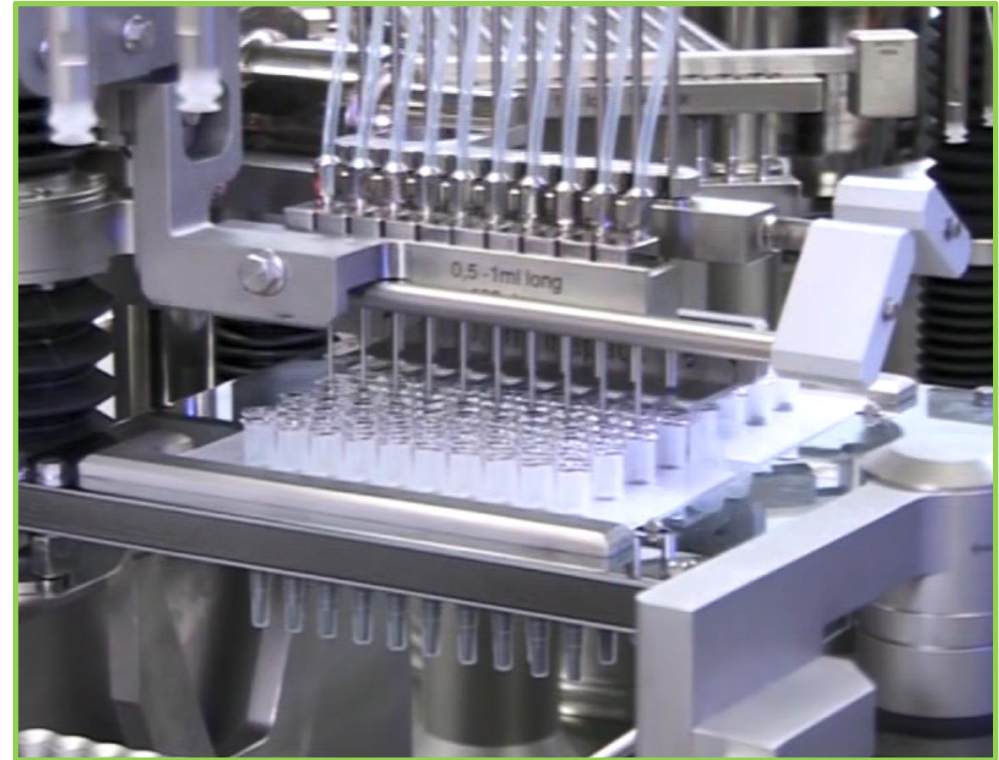
With U.S. Polymer Cellulose Dialysis Membrane
efficiently elute residual cross-linking agent and other impurities



Filling

German Advanced Inova Aseptic Filling Machine

to prevent pollution and ensure
production capacity





Sterilization

**Sweden's Up-To-Date Getinge Sterilizer
for Terminal Sterilization**
to reach the 10^{-6} sterility assurance level
and guarantee safety

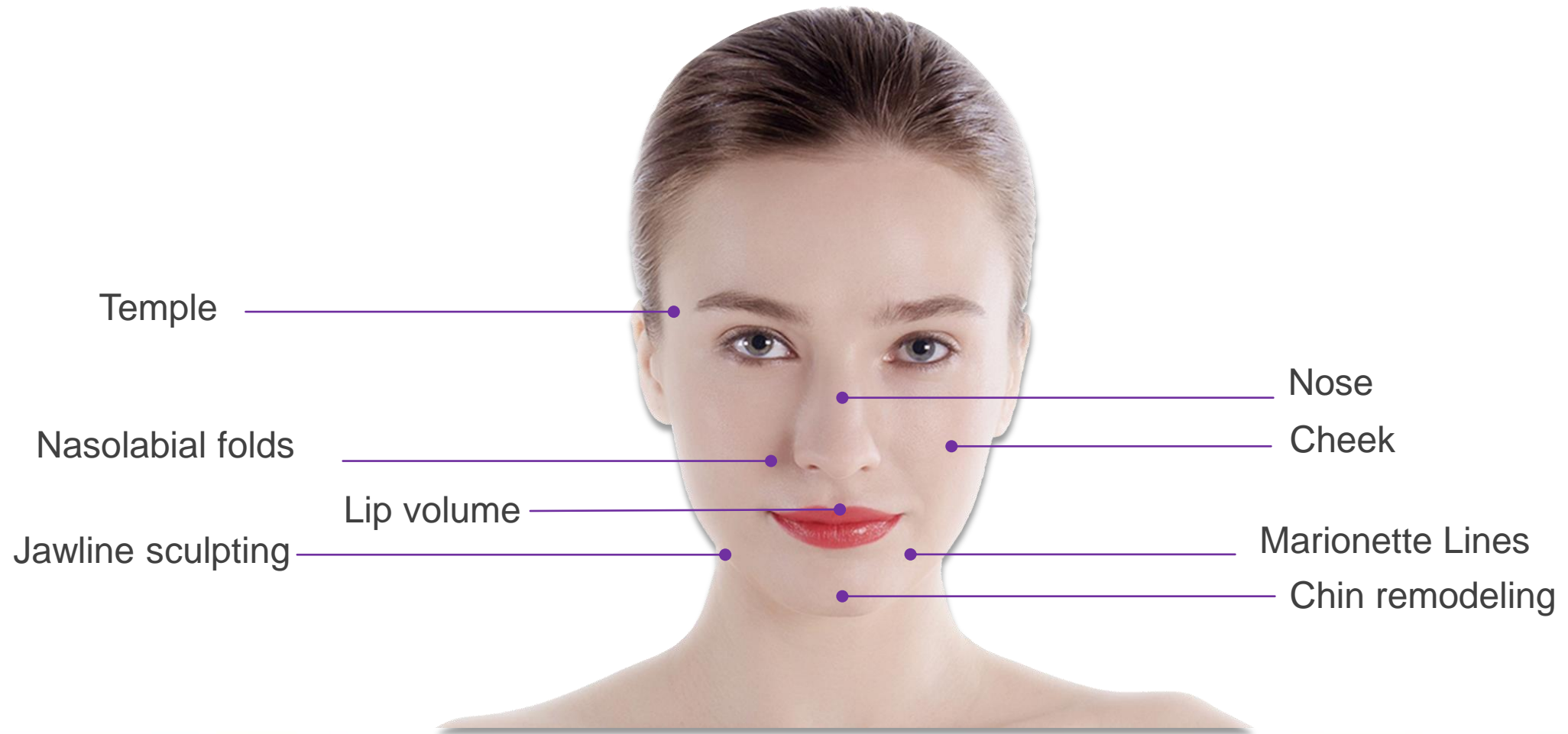


PART 02

Treatment with Singderm®

Singderm® Indication

Aimed at Full Face Rejuvenation



PART 03

**Why Singderm®
Is the Best Choice**

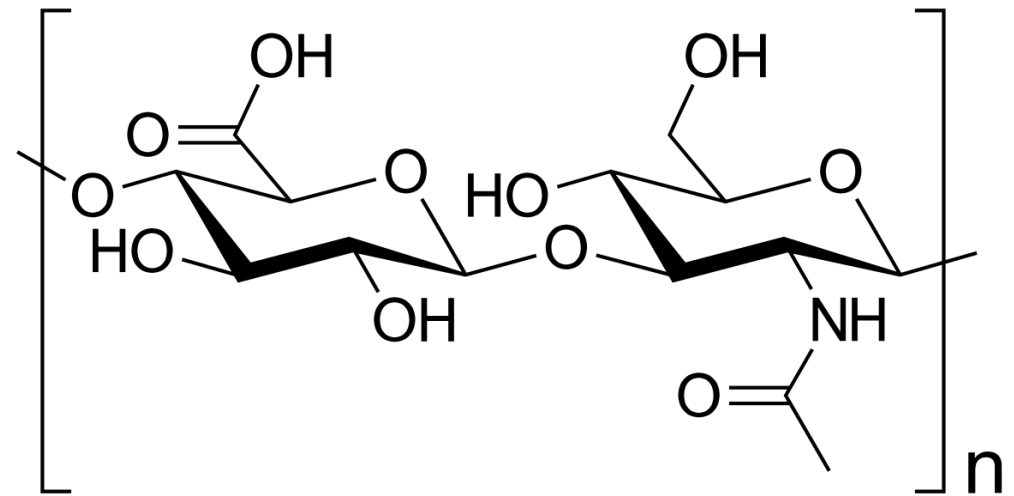


Reason 1

Competitive Advantages

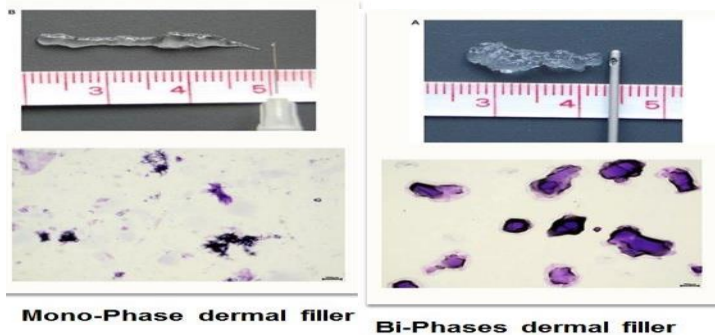
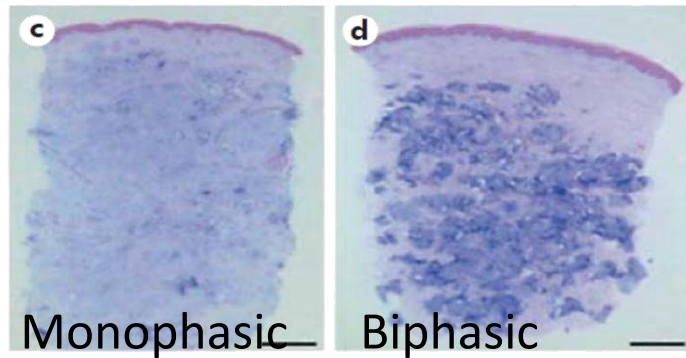
Safe

- Singderm® is obtained by bio-fermentation, **having good biocompatibility**
- Osmotic pressure and pH value are close to the human body



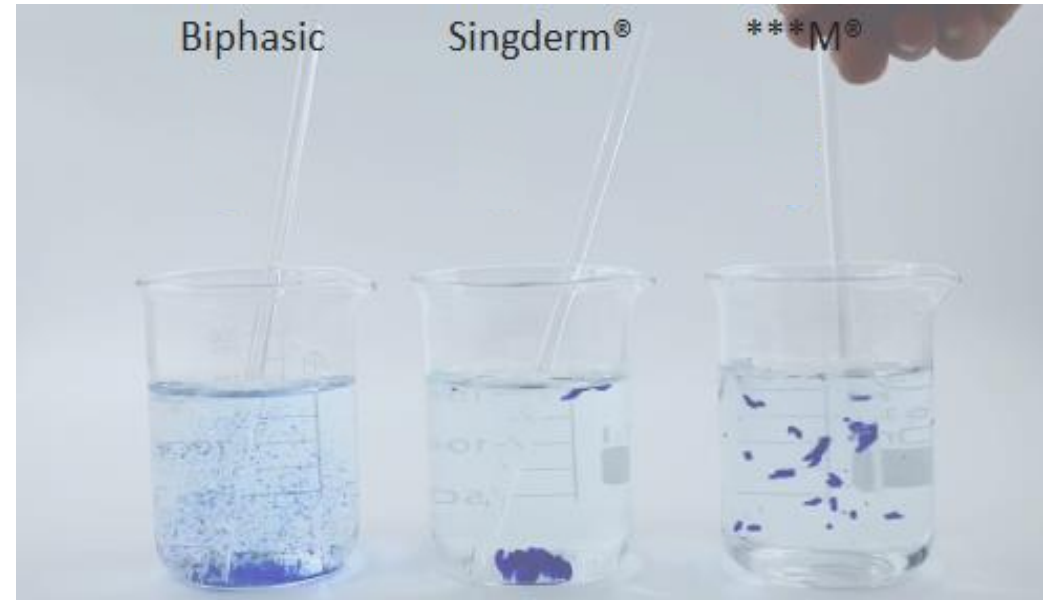
Effective

01 Pure Gel Without Particles



Monophasic Dermal Filler fits seamlessly with the surrounding tissue, bring natural beauty

02 High Viscosity

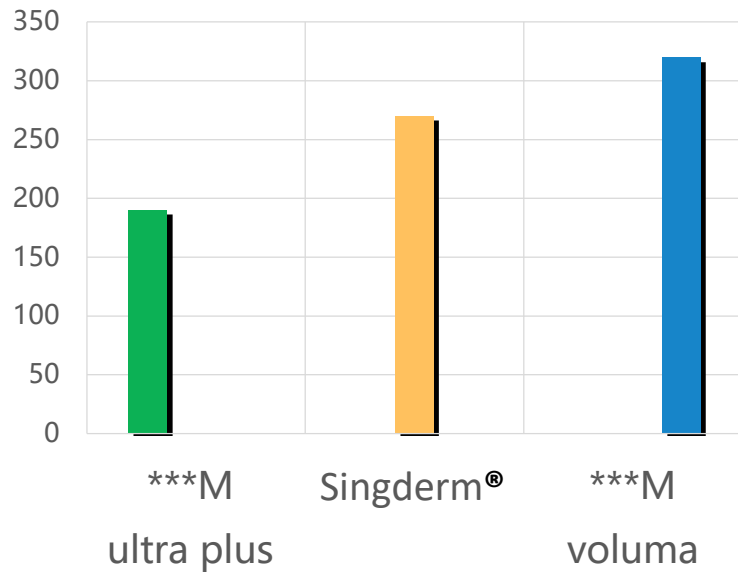


After injection, Singderm®'s shape is more stable and it is not easy to be dispersed by shear force, making gel hard to shift and spread

Effective

03 High Elasticity

G Prime



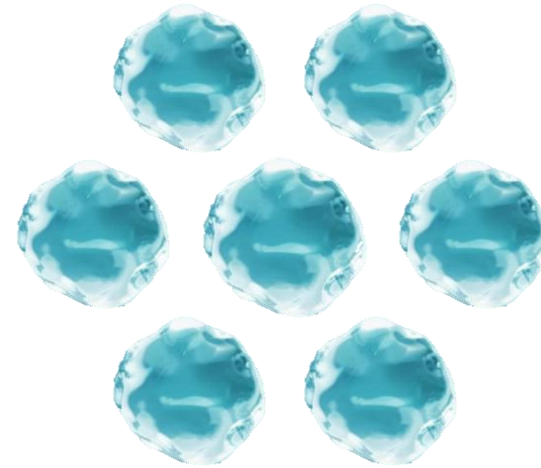
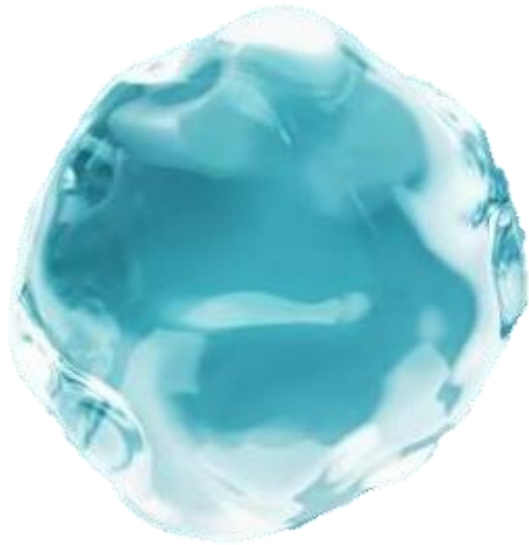
Singderm® is excelling in retaining its shape when a force is applied, perfect for contouring and shaping

04 Strong Support



With SingLink® technology, Singderm® has a more stable three-dimensional structure, ideal for maintaining long-term strong support and treating depression

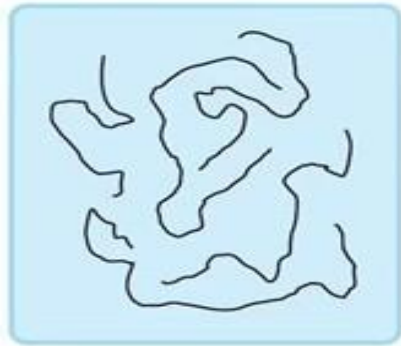
Long-lasting



Having Smaller Surface Area

subject to enzymatic hydrolysis, maximally prolongs the enzymatic hydrolysis

Long-lasting

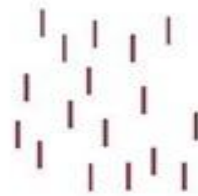


Non cross-linked HA

Linear molecular structure

+

DVS



Cross-linking agent

DVS

=



Cross-linked HA

Reticulate molecular structure

Close, stable and long lasting

SingLink® Cross-linking Technology

creates a three- dimensional network structure, stable and long lasting

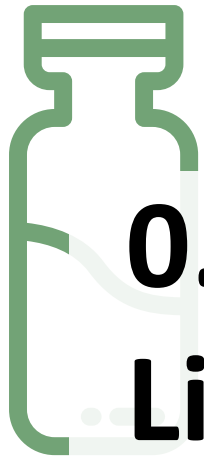
Long-lasting

The actual concentration of cross-linked HA was **measured** by the filter paper filtration method

Content mg/ml	Singderm®	***M (International brand)	***X (Chinese Brand)
HA Content	24	24	20
Cross-linked HA	20.8	15.6	8.8
non cross-linked HA	3.2	8.4	11.2

High Concentration of Cross-linked HA
to achieve good filling and lifting effect

Comfortable Experience



0.3%

Lidocaine

- Slowly release after injection
- Long-term pain relief (3-5h)



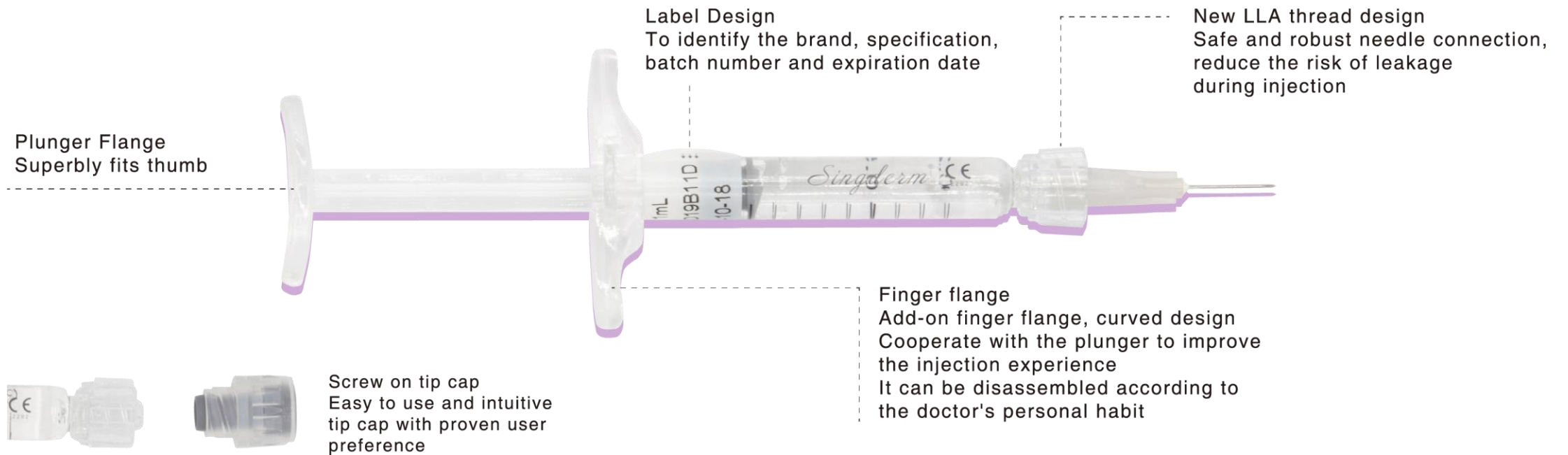
Sharp Needle

- BD/Terumo sharp needle to make injection less painful
- Giving better experience of slight pain or even no pain

Comparison Between DVS And BDDE

Comparison options	DVS Divinyl Sulfone, C ₄ H ₆ O ₂ S	BDDE Butanediol Diglycidyl Ether, C ₁₀ H ₁₈ O ₄
Chemical reaction rate	Fast	Slow
Intramolecular and intermolecular crosslinking	Reactions at the level of several vinyl groups with the formation of a high level of internal and intermolecular crosslinking	A more detected molecular cross-linking
The distance between the HA chains after crosslinking	Close distance between molecules, tighter connection, greater product stability	Greater distance between molecules in the chain
Cross Link Level	The reaction level is up to 99%. Dense mesh formation with more stable particles and prolonged stereometry	After reaction with ha, the BDDE Epoxy groups are neutralized and the portion of the BDDE that has not reacted remains in the product
Conclusion	DVS, the stable hydrogels containing sulfonyl-bis-ethyl linkage can hold higher weight of HA molecules. The HA-DVS-HA hydrogel is already strong after 15 minutes comparing other agents.	

Smooth Delivery



An Innovative Glass Pre-fillable Syringe

BD Hylok™

Designed for the Administration of Hyaluronic Acid

Comparison

One hour later

• Steel ball experiment

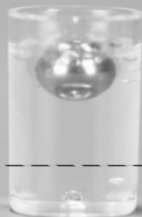
Biphasic
Hyaluronic
Acid

4ml



Singderm®

4ml

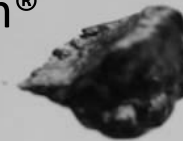


Compared with traditional biphasic hyaluronic acid, Singderm® monophasic dermal filler has stronger support.

Other brands



Singderm®



Singderm
Experiment
Conditions

Wind force reaches level 9
typhoon standard

30,000 r/min
20 m/sec

Singderm® monophasic dermal filler has better cohesion, better viscosity, stable structure, and is hard to shift and spread.



Reason 2

Excellent Clinical Performance

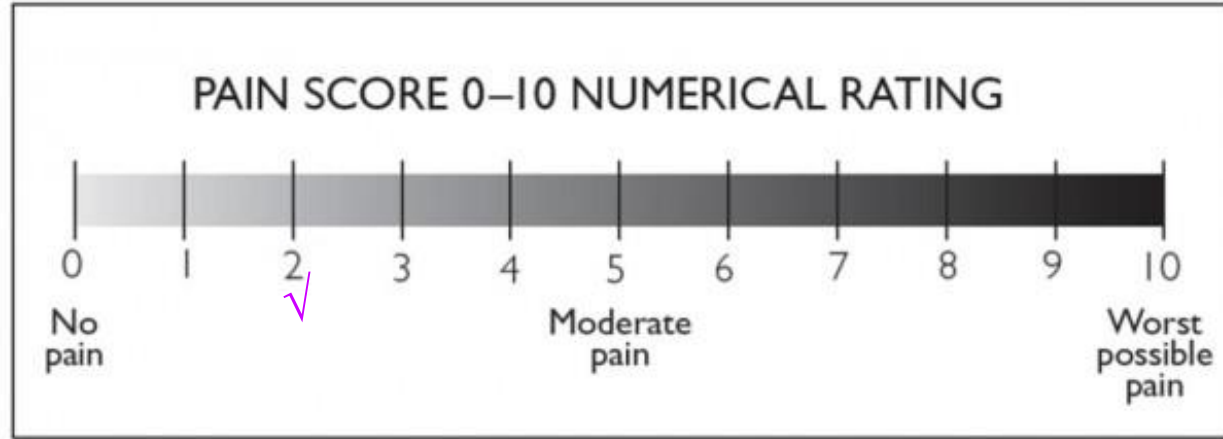
Singderm® Effectiveness Rate



- The efficacy rate is measured by wrinkle severity rating scale(WSRS) from baseline.
- This clinical trial being a self-controlled study was performed in three clinical sites, 100 subjects participated.

Singderm® effectiveness rate is 92.7% at 12 month while currently the highest 12-month effectiveness rate of the internationally well-known dermal filler is 83%.

Pain Score



- **Singderm®** shows to be safe and painless. The median score of pain was 2.0 equivalent to benchmark.
- **no adverse events reported.**



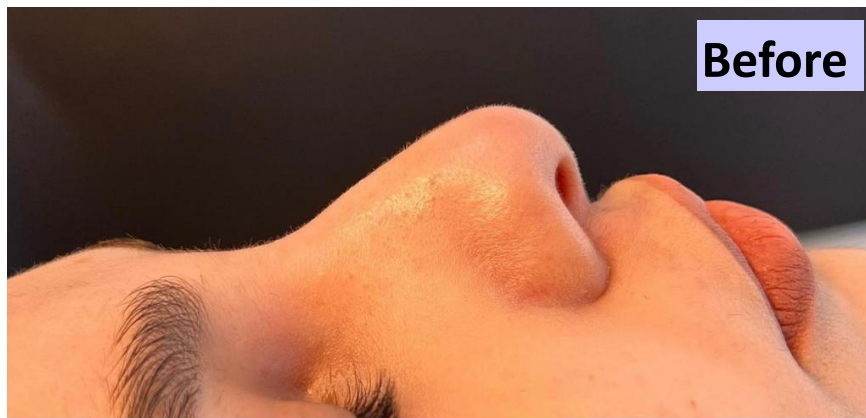
Reason 3

Positive Clinical Feedback

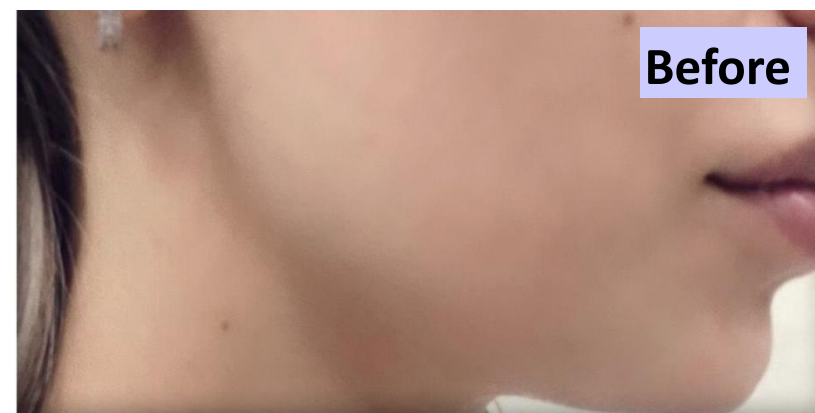
Singderm[®] Before and After



Singderm® Before and After



Nonsurgical Rhinoplasty



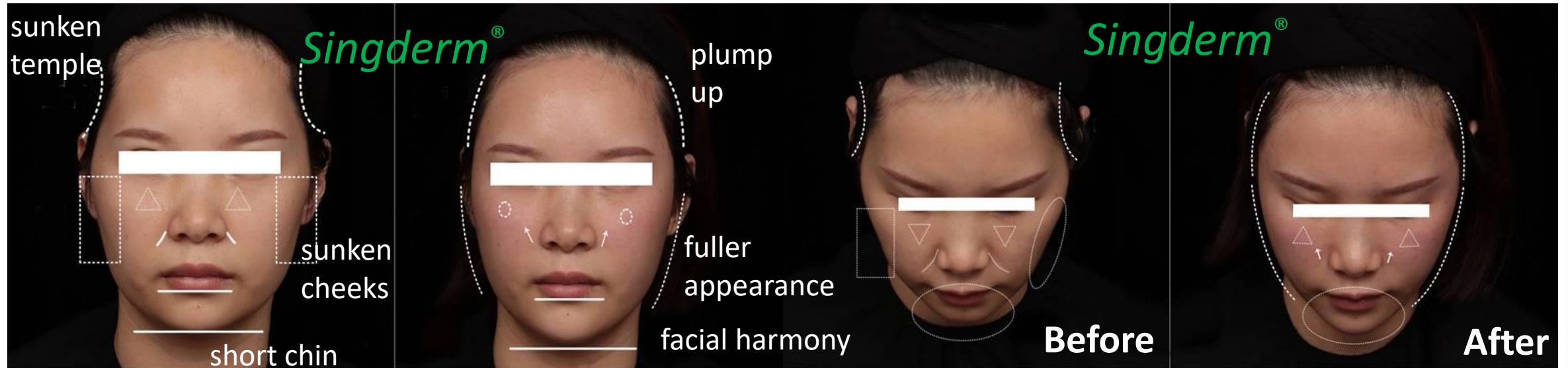
Jawline Refining

Singderm® Before and After



Perfect lip filling

Singderm® Before and After



Singderm® Testimonial



● Doctor's Testimonial

● Patient Testimonial ★★★★★

I didn't feel any pain and the whole injection is so smooth. It's the best dermal filler that I have ever used!— Karen

Actual Patient treated with Singderm® in the nose and cheek

Doctors and Patients all love ❤️❤️❤️ Singderm®!



PART 04

Global Market

01

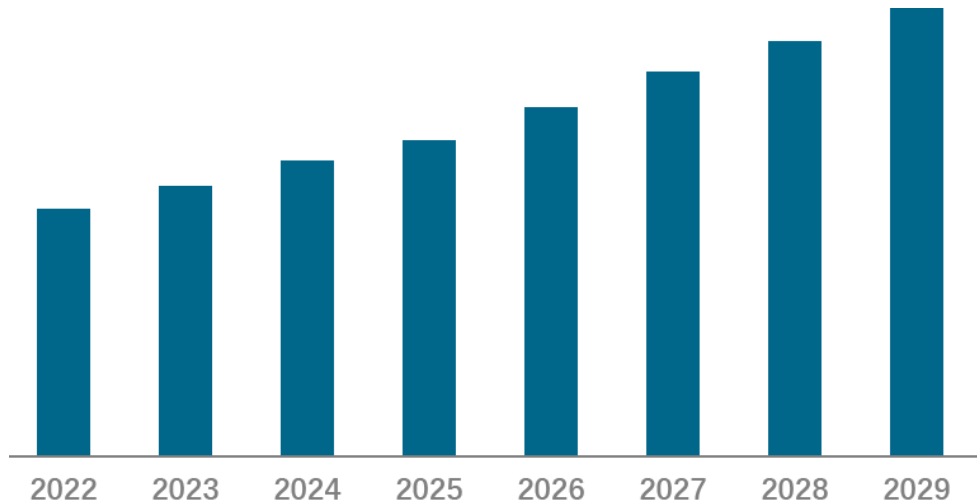
Singderm® Main Markets



Over 40 countries and regions

02

HA Dermal Filler Market Size



Global Hyaluronic Acid Based Dermal Fillers Market Share, By Crosslinking Type, 2021



The global hyaluronic acid based dermal fillers market is projected to grow from USD 4.11 billion in 2022 to USD 6.93 billion by 2029, exhibiting a CAGR of 7.7% during the forecast period.

In 2021, **the monophasic segment** held the highest market share and It is anticipated to expand at the highest CAGR during the forecast period, 2022-2029.




The growth is attributable to multiple applications of monophasic dermal fillers.

PART 05

Singclean Filler Family










01

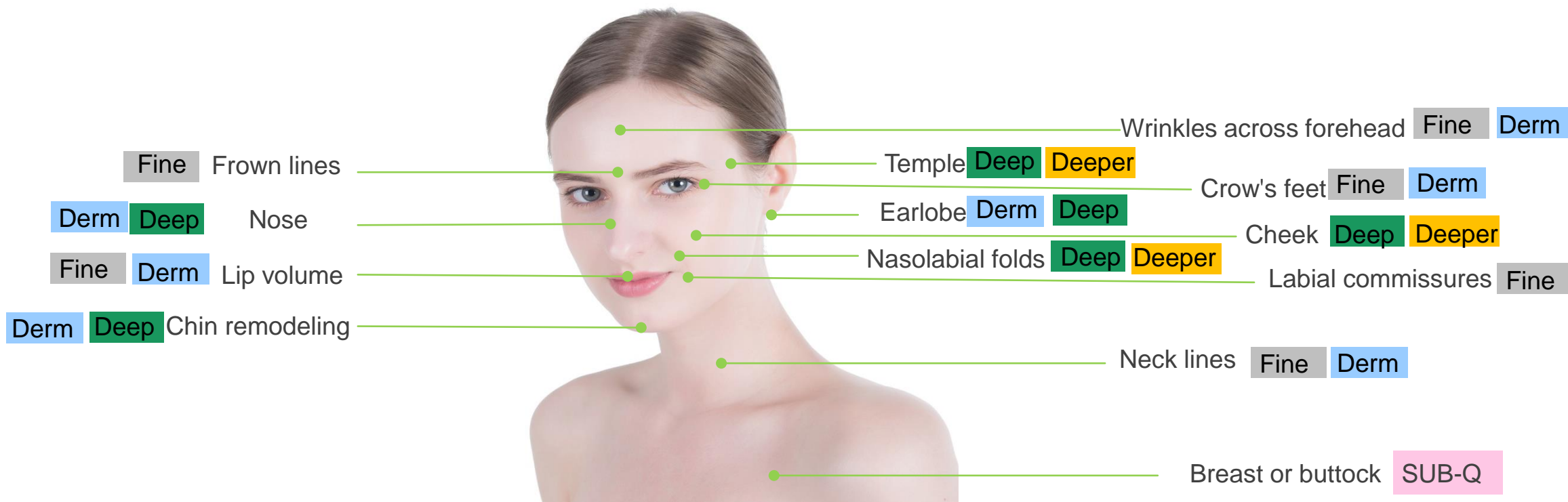
Singderm® Series

	Singderm			Singderm ^{Lift}		Singderm ^{Silk}	
Product							
Indication	for facial tissue augmentation where restoration is required, including reconstructive treatment of volume loss as well as for facial morphological asymmetry.			for cheek augmentation to correct age-related volume deficit in the midface.		for lip augmentation and for correction of perioral rhytids.	
Duration	up to 1 year			up to 1 year		up to 6 months	
HA Concentration	24mg/ml			24mg/ml		24mg/ml	
Lidocaine	0.3%			0.3%		0.3%	
Water affinity	● ● ○ ○ ○			● ● ○ ○ ○		● ● ○ ○ ○	
G'(Hardness)	● ● ● ○ ○			● ● ● ● ●		● ● ○ ○ ○	
Cohesivity	● ● ● ● ○			● ● ● ● ○		● ● ● ○ ○	
Specification	1ml	2ml	10ml	0.5ml	1ml	0.5ml	1ml
Enclosed Needles	2x27G	2x26G	NA	1x26G	2x26G	1x30G	2x30G

02

Singfiller® Biphasic HA Dermal Filler

Type	Fine		Derm		Deep		Deeper		SUB-Q	
Specification	1ml	/	1ml	2ml	1ml	2ml	1ml	2ml	2ml	20ml
singfiller		/								



Singderm

Endless Pursuit of Beauty

Thanks

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