

GENOSYS

Korean Microneedling Science



GENOSYS

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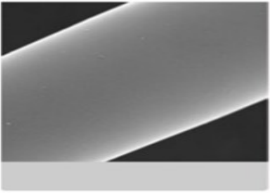
BIO-MESO
PDRN AMPOULE

GENOSYS is the world's best microneedling-dedicated brand born by combining microneedling with the cosmeceuticals specially formulated for microneedling treatment to optimize the skin care effects.

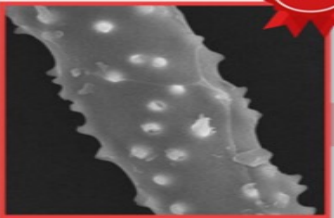
Bio-Meso Therapy

- GENOSYS' unique therapy using GENOSYS BIO-MESO PDRN AMPOULE
- Utilizing spicules, microscopic needle-like components extracted from freshwater sponges
- No-needle microneedling treatment
- Bio microneedling treatment


Micro-Channel Formation	Mild Inflammatory Response
When applied topically, spicules penetrate the skin and form temporary microchannels. This process enhances transdermal absorption of active ingredients.	The mechanical stimulation triggers a mild, controlled inflammatory response in the skin. This activates fibroblasts and promotes collagen synthesis and epidermal renewal, leading to firmer, more radiant skin.



Earlier Generation




3rd Generation



3rd Generation Cog Spicule

- An innovative 3rd-generation spicule evolved from earlier generations
- Using advanced coating technology, active ingredients encapsulated in phytosome form are applied to the surface of the spicules.
- PDRN and spicules are simultaneously delivered to the skin.





Bio-Meso PDRN Ampoule

- A specialized treatment ampoule, enriched with the uniquely formulated BIO-MESO™ PDRN, panthenol, and an anti-aging complex to regenerate skin and strengthen the skin barrier.
- Customizable care enabled by a 2-way system for clinic-based and home-use applications
- Contains a significantly higher concentration of spicules compared to other products on the market, delivering more intensive results.
- Functions as a spicule peeling or bio-meso peeling treatment, inducing a peel-off effect on the skin.
- Effects: Boosts skin turnover

Enhances collagen & elastin production

Promotes skin regeneration

Improves skin tone

Improves blemishes

pro



BIO-MESO PDRN
EXPERT AMPOULE 60000

*home
care*



BIO-MESO PDRN
HOMECARE AMPOULE 5000

Bio-Meso PDRN Ampoule

- Spicule concentration

General	BIO-MESO PDRN AMPOULE
Mild homecare: 0.01% ~0.3%	Homecare: 0.5%
Intense home care: > 0.3% (Usually reserved for professional care)	
Professional care: 0.3% ~5% (> 1% is for trained professionals.)	Professional: 6%

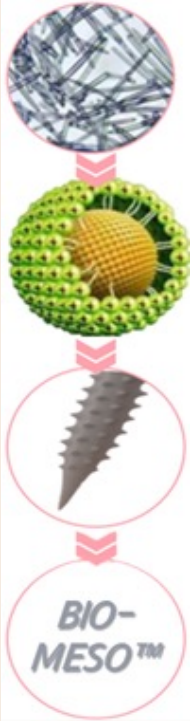
* Why do we start from professional treatment and then use the homecare ampoule?

The professional treatment with 60,000 ppm spicules delivers deep stimulation of skin, initiating intense cell turnover, collagen and elastin synthesis and resulting firmer, brighter, smoother skin. This sets the foundation for deep renewal and optimizes the skin's receptivity. After a professional session, the skin is primed for ongoing regeneration. The homecare ampoule continues delivering PDRN, growth factors, and spicules in controlled, irritation-free doses and helps maintain the results of the expert treatment and supports barrier repair and collagen remodeling over time and prevents rebound dullness or aging between clinic visits.

- High-dose spicules (60,000 ppm) are ideal for periodic intensive therapy.
- Moderate-dose spicules (5,000 ppm) are ideal for frequent, gentle reinforcement.
- Using both creates a treatment-retention cycle.

BIO-MESO™

- GENOSYS' exclusive spicule system, built on stabilized phytosome encapsulation technology, enables direct penetration of active ingredients into the skin for enhanced efficacy.



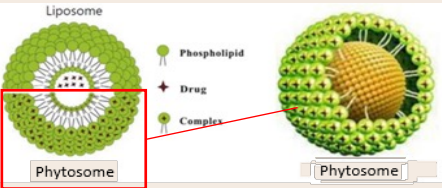
STEP 1
High-purity natural spicule extraction

STEP 2
PDRN phytosome encapsulation

STEP 3
Special coating of PDRN phytosome on 3rd-generation cog spicules

STEP 4
A next-level spicule system by GENOSYS - optimized for maximum stability and effective transdermal delivery.

	Liposome	Phytosome
Binding	Physically encapsulates active ingredients within the inner aqueous space of the phospholipid bilayer	Forms molecular complexes by chemically binding active ingredients to the polar head of phospholipids
Delivery	Liposomes release active ingredients upon membrane disruption or fusion, allowing them to be absorbed.	Delivers active ingredients in a phospholipid-bound form, enhancing skin compatibility and absorption.
Stabilization	Structural stabilization	Chemical stabilization



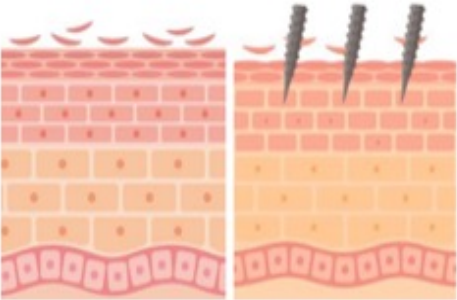
- The active ingredients form a stable complex with phospholipids, mimicking the structure of skin lipids.
- This enhances permeation through the skin barrier and ensures efficient, direct delivery without dissociation.

BIO-MESO™

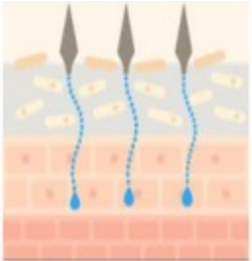
**3rd Generation
Cog Spicule**



Induces gentle micro-stimulation on the skin to accelerate skin renewal

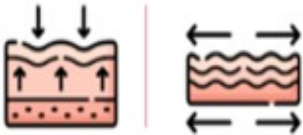


Enhances the absorption of PDRN phytosomes by creating effective delivery pathways



PDRN

Highly concentrated PDRN penetrates into the skin, promoting regeneration and collagen synthesis.



Firming & Regenerating

Mechanism

STEP 01. Bio-Microneedling

Microneedling without needles!

GENOSYS' exclusive spicule system, BIO-MESO™, forms micro-channels and delivers PDRN phytosome capsules directly into the skin.



STEP 02. Skin Revitalizing

BIO-MESO™ micro-stimulation promotes skin turnover and revitalizes the complexion.

Formulated with growth factor peptides, panthenol, and 5 types of ceramides to strengthen the skin's natural barrier and resilience.



STEP 03. Anti-Aging

A highly concentrated essence infused with pure PDRN extracted from salmon milt and anti-aging peptides is absorbed along the BIO-MESO™ pathway, delivering powerful anti-aging effects.

Recommended Treatment program with Expert & Homecare ampoule

January BIO-MESO Professional Treatment – 1st Session	February BIO-MESO Professional Treatment – 2nd Session	March BIO-MESO Professional Treatment – 3rd Session
April BIO-MESO Homecare - Once a week	May BIO-MESO Homecare – Once a week	June BIO-MESO Homecare – Once a week
July BIO-MESO Homecare – Once a week	August New Professional Procedure	

Precaution

- Avoid use around the eyes and lip.
 - * Protect the eyes with wet cottons.
- Contraindications
 - 1) Active skin infections
 - 2) Severe acne or rosacea
 - 3) Open wounds or broken skin
 - 4) Skin allergies or hypersensitivity
 - 5) Autoimmune skin disorders (lupus, psoriasis, eczema and etc.)
 - 6) Recent dermatological procedures (post-chemical peel, laser resurfacing, or microneedling)
 - 7) Skin cancers or precancerous lesions
 - 8) Recent sunburn or tanning

Precaution

- After using beauty devices, peeling products, or high-concentration formulations that may irritate the skin, it is recommended to use this product only after the skin has fully recovered, as the skin may be in a highly sensitive state. (Do not use together.)
- Depending on skin type, mild irritation may last up to 3 days.
- Exfoliation may occur approximately 2 to 3 days after the treatment.
- Stop using retinoids at least 7 – 10 days before receiving a professional-grade spicule treatment.
- For stronger prescription retinoids (e.g., 0.05 – 0.1% tretinoin), consider extending the break to 14 days, especially if the skin shows signs of peeling, dryness, or redness. Ensure the skin appears calm, non-peeling, and not erythematous before proceeding.
- After treatment, do not resume retinoids for at least 14 days, and only once the skin has completely recovered.
- If the patient has used oral isotretinoin (Accutane) in the past, professional spicule treatment should be deferred for at least 6 months post-treatment due to impaired wound healing.

GENOSYS

BIO-MESO PDRN EXPERT AMPOULE 60000

GENOSYS is the world's best microneedling-dedicated brand born by combining microneedling with the cosmeceuticals specially formulated for microneedling treatment to optimize the skin care effects.



Features



- For professional Use
- BIO-MESO™ PDRN: 60,000ppm
- Spicules per 1ml: 300,000~360,000ea
- Panthenol 10,000pppm + 5 ceramides
- 8 Anti-aging peptides
- 9 Growth factor peptides
- Usage frequency: Equivalent to a 1.0mm needle
→ recommended once a month

Protocol



Makeup Remover



Snow O₂



Snow Booster



EZ CO₂ Mask



Bio-Meso PDRN Expert
Ampoule 60000



Hydro Soothing Cream



Bio-Ferment Powder Mask
Skin Reboot PDRN Mask



Soothing Repair Postcream



Skin Rescue Overnight
Cream Mask



Multi Sun Cream
Ultra Shield Sun Cream

Treatment Tip.
To reduce the intensity
of the treatment,
skip the HSC
application step.

KEY INGREDIENTS

BIO-MESO PDRN EXPERT AMPOULE 60000



Key Ingredients

Anti-Aging

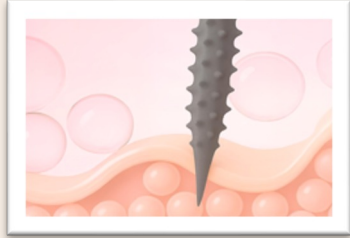
- ✓ PDRN
- ✓ Acetyl Hexapeptide-8
- ✓ Copper Tripeptide-1
- ✓ Hexapeptide-9
- ✓ Nonapeptide-1
- ✓ Palmitoyl Pentapeptide-4
- ✓ Palmitoyl Tripeptide-1
- ✓ Palmitoyl Tetrapeptide-7
- ✓ Palmitoyl Tripeptide-1
- ✓ Collagen
- ✓ Elastin

Skin Revitalizing

- ✓ sh-Polypeptide-22 (TGF)
- ✓ sh-Oligopeptide-1 (EGF)
- ✓ sh-Polypeptide-1 (bFGF)
- ✓ sh-Polypeptide-9 (VEGF)
- ✓ sh-Oligopeptide-2 (IGF)
- ✓ sh-Polypeptide-11 (aFGF)
- ✓ sh-Polypeptide-3 (KGF)
- ✓ sh-Polypeptide-16 (PIGF)
- ✓ sh-Polypeptide-62 (HGF)

Barrier Strengthening

- ✓ PDRN
- ✓ Panthenol
- ✓ Ceramide NP
- ✓ Ceramide EOP
- ✓ Ceramide AS
- ✓ Ceramide AP
- ✓ Ceramide NS
- ✓ Phytosphingosine



BIO-MESO™ PDRN

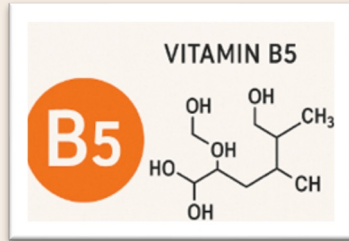
- PDRN is encapsulated in phytosome form and coated onto the surface of natural hydrolyzed sponge spicules.
- Needle-shaped structure enables direct skin penetration.
- Provides a bio-peeling effect that promotes skin turnover.
- Delivers excellent skin regeneration benefits.



PDRN (Sodium DNA)

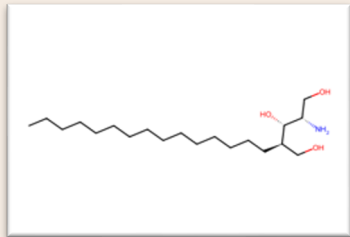
- Salmon-derived DNA (95% similarity to human DNA)
- Promotes the release of anti-inflammatory cytokines to help soothe damaged skin.
- Accelerates cell turnover for visible anti-aging effects.
- Supports collagen and elastin synthesis.
- Strengthens the skin barrier and protects against external aggressors.

Panthenol (Vitamin B5)



- Contains pantothenic acid, known for its strong water-binding capacity and high skin permeability.
→ Enhances skin barrier by delivering deep hydration.
- Helps protect the skin from external stressors.
- Provides anti-inflammatory and soothing effects.

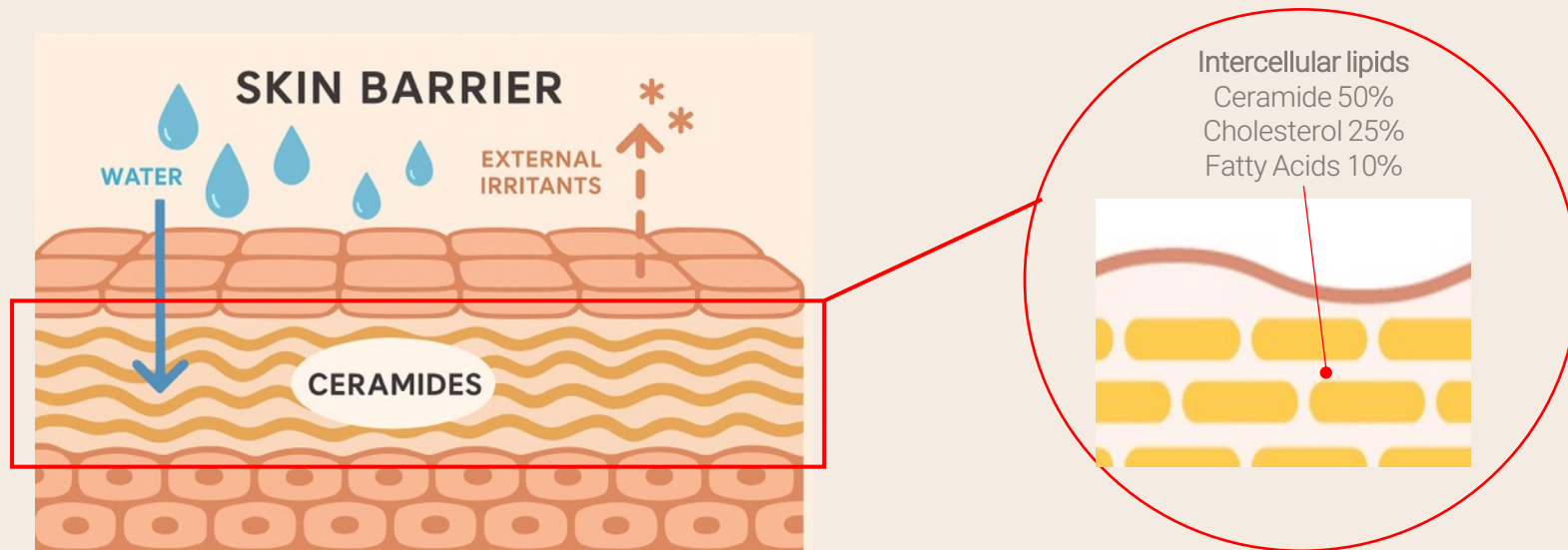
Phytosphingosine



- Salmon-derived DNA (95% similarity to human DNA)
- Promotes the release of anti-inflammatory cytokines to help soothe damaged skin.
- Accelerates cell turnover for visible anti-aging effects.
- Supports collagen and elastin synthesis.
- Strengthens the skin barrier and protects against external aggressors.

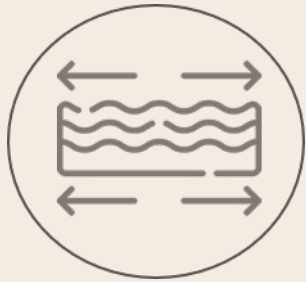
CeraShield-5

- Contains pantothenic acid, known for its strong water-binding capacity and high skin permeability.
→ Enhances skin barrier by delivering deep hydration.
- Helps protect the skin from external stressors.
- Provides anti-inflammatory and soothing effects.

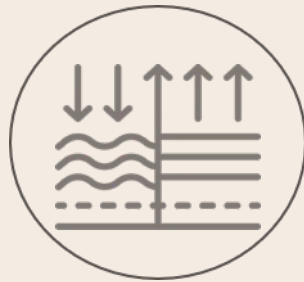


Anti-Aging Peptide Complex

- Copper Tripeptide-1: Promotes collagen and elastin synthesis.
- Hexapeptide-9: Enhances collagen production.
- Nonapeptide-1: Inhibits melanin production → Helps prevent pigmentation and brightens skin tone.
- Tripeptide-1: Stimulates the synthesis of collagen and elastin.
- Acetyl Hexapeptide-8: Reduces expression lines and wrinkles.
- Palmitoyl Pentapeptide-4: Stimulates collagen synthesis.
- Palmitoyl Tripeptide-1: Stimulates collagen synthesis.
- Palmitoyl Tetrapeptide-7: Helps reduce inflammation and soothes the skin.



Anti-Wrinkle



Firming



Tone
Improvement



Soothing

9GF Peptide Complex



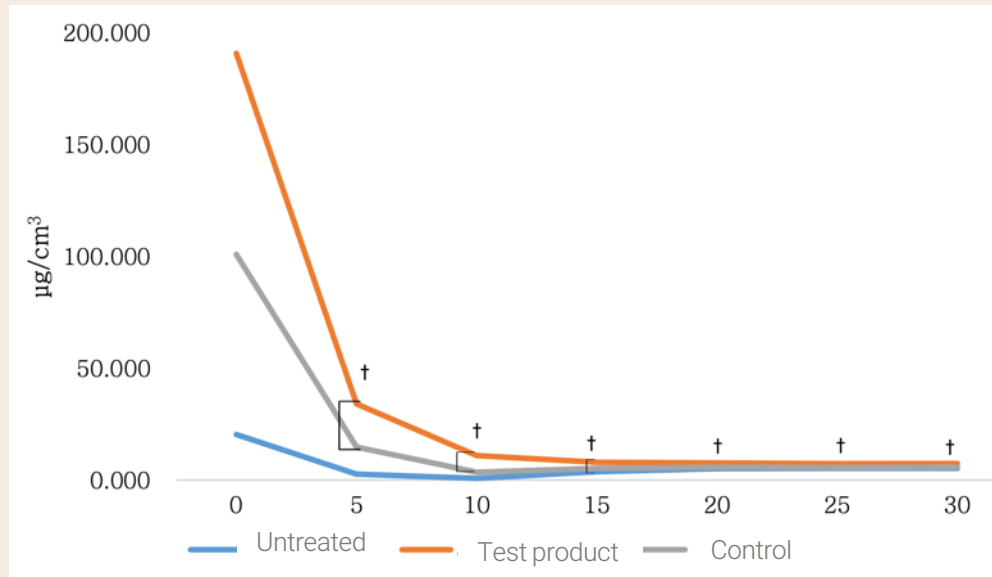
- sh-Oligopeptide-1 (EGF): Epidermal Growth Factor; promotes proliferation and differentiation of keratinocytes and epidermal cells.
- sh-Polypeptide-1 (bFGF): Basic Fibroblast Growth Factor; boosts collagen synthesis and supports skin regeneration.
- sh-Polypeptide-11 (aFGF): Acidic Fibroblast Growth Factor; enhances collagen production and skin repair.
- sh-Polypeptide-9 (VEGF): Vascular Endothelial Growth Factor; promotes capillary formation and increases nutrient delivery.
- sh-Oligopeptide-2 (IGF-1): Insulin-like Growth Factor-1; supports cellular regeneration and wound healing.
- sh-Polypeptide-3 (KGF): Keratinocyte Growth Factor; stimulates epidermal cell proliferation and strengthens the skin barrier.
- sh-Polypeptide-16 (PIGF): Placenta Growth Factor; aids in skin regeneration and wound healing.
- sh-Polypeptide-62 (HGF): Hepatocyte Growth Factor; helps with tissue repair and improves skin tone.
- sh-Polypeptide-22 (TGF): Transforming Growth Factor; promotes collagen synthesis and refines skin texture.

GENOSYS BIO-MESO PDRN EXPERT AMPOULE 60000

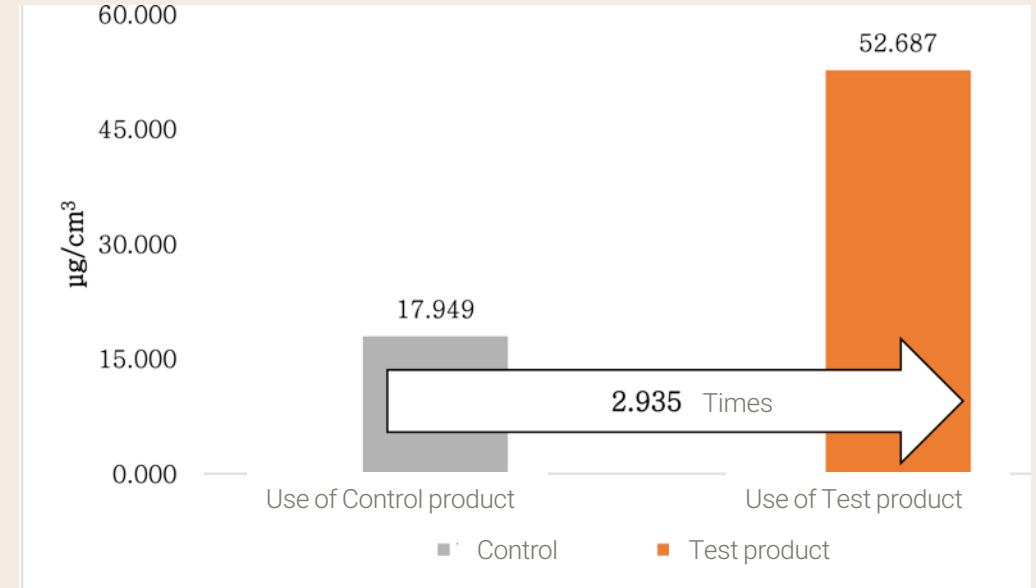
Clinical Test Report

Clinical Test Report - 20females(age 48±8)

- Dermal absorption



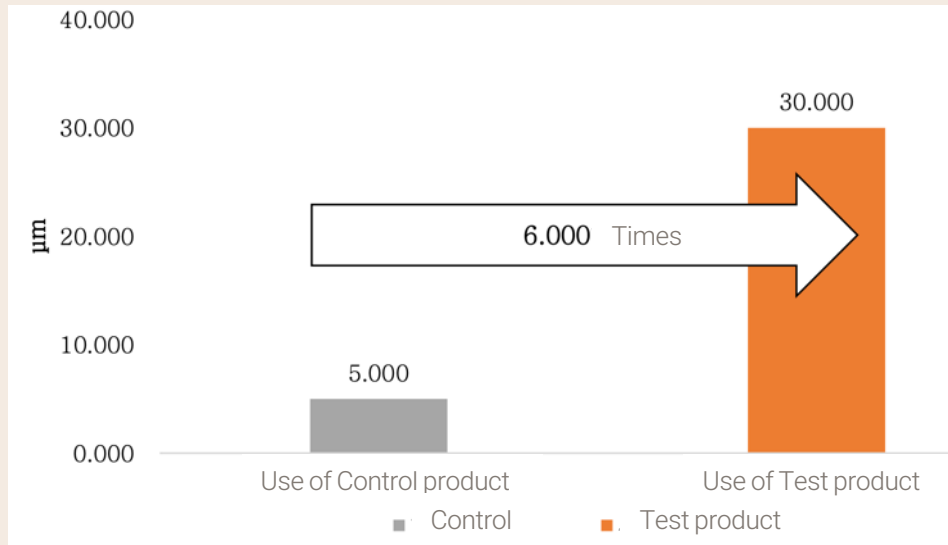
Extent of Dermal absorption



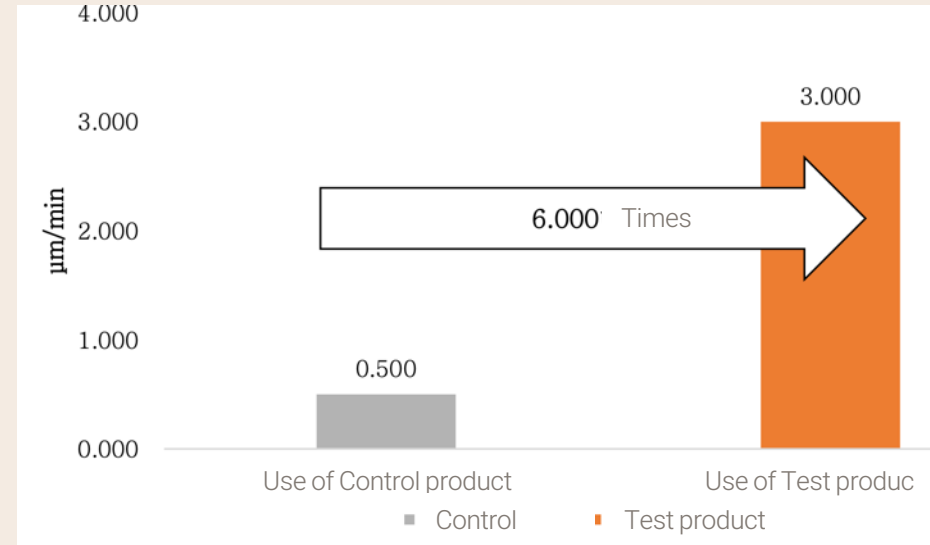
Total Extent of Dermal absorption

Clinical Test Report - 20females(age 48±8)

- Dermal absorption



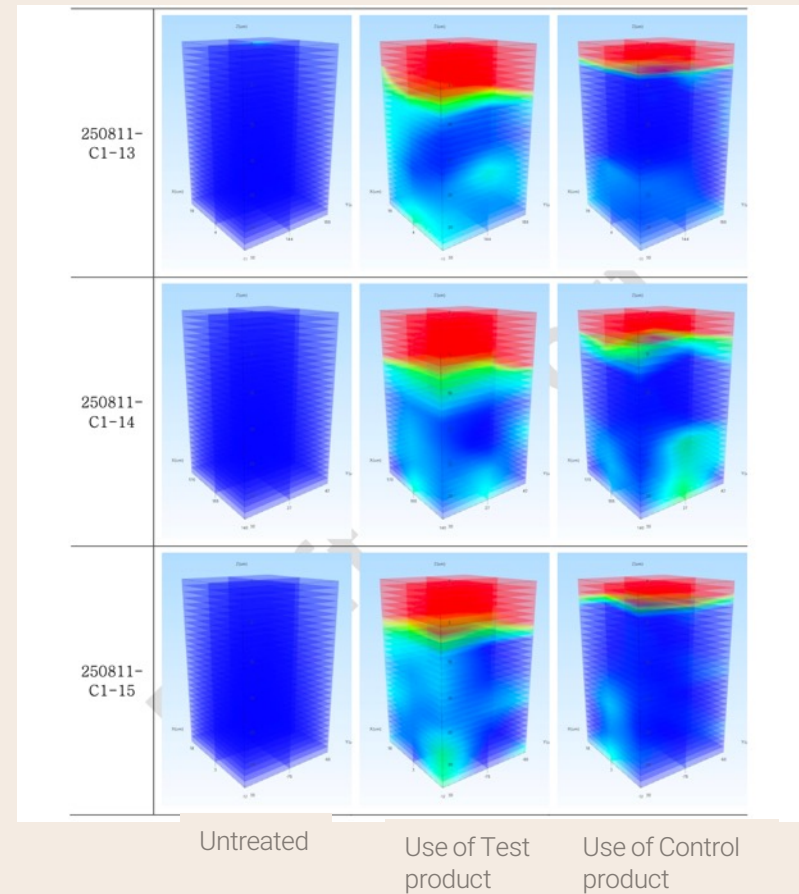
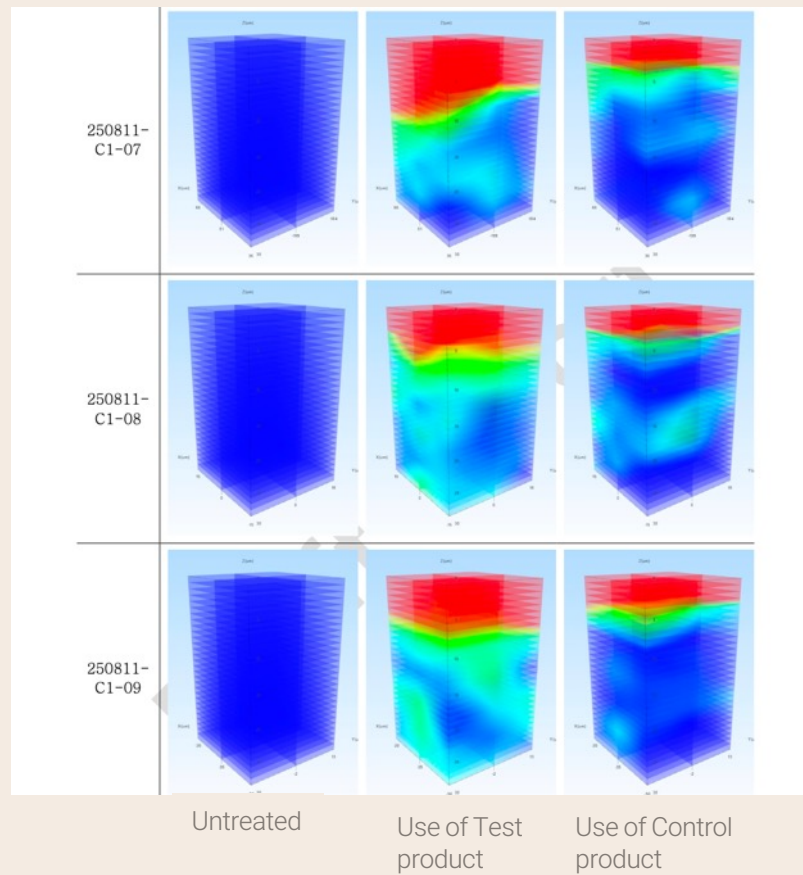
Depth of Dermal absorption



Dermal absorption rate

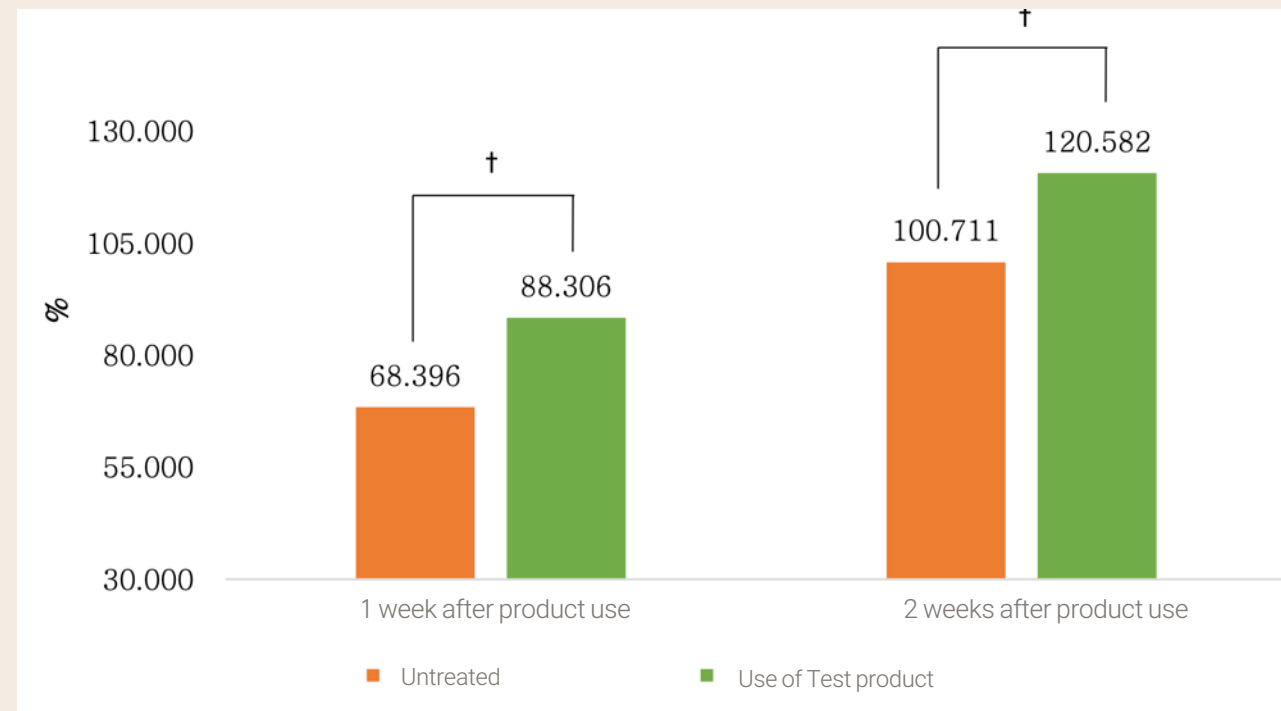
Clinical Test Report - 20females(age 48±8)

- Dermal absorption : extent and rate_gen2-SCA performance







































Clinical Test Report - 20females(age 48±8)

- Skin exfoliation rate



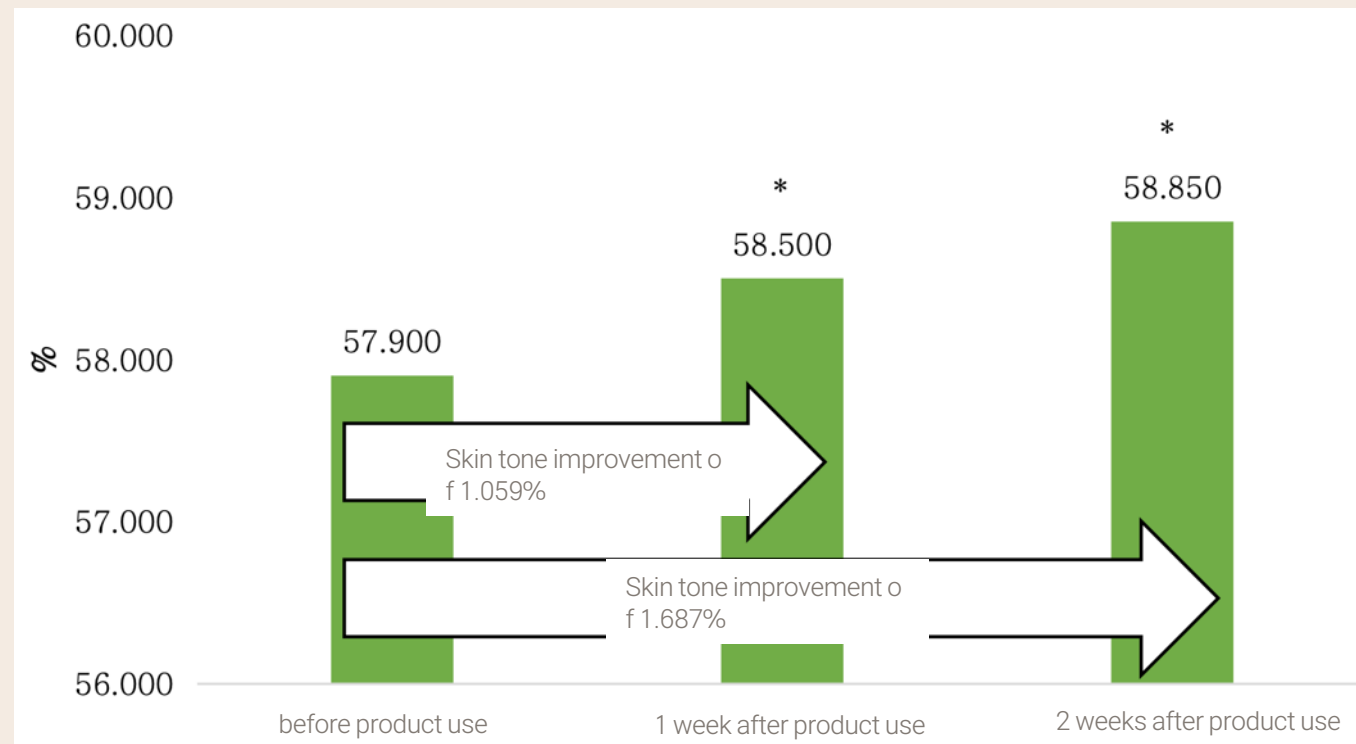
Clinical Test Report - 20females(age 48±8)

- Skin exfoliation rate _ Janus 1 Mark II, UV mode

	Before skin dye		After skin dye		1 W after use		2 W after use	
	Untreated	Treated	Untreated	Treated	Untreated	Treated	Untreated	Treated
250811 -C1-12								
250811 -C1-13								
250811 -C1-14								
250811 -C1-15								
250811 -C1-16								
250811 -C1-17								

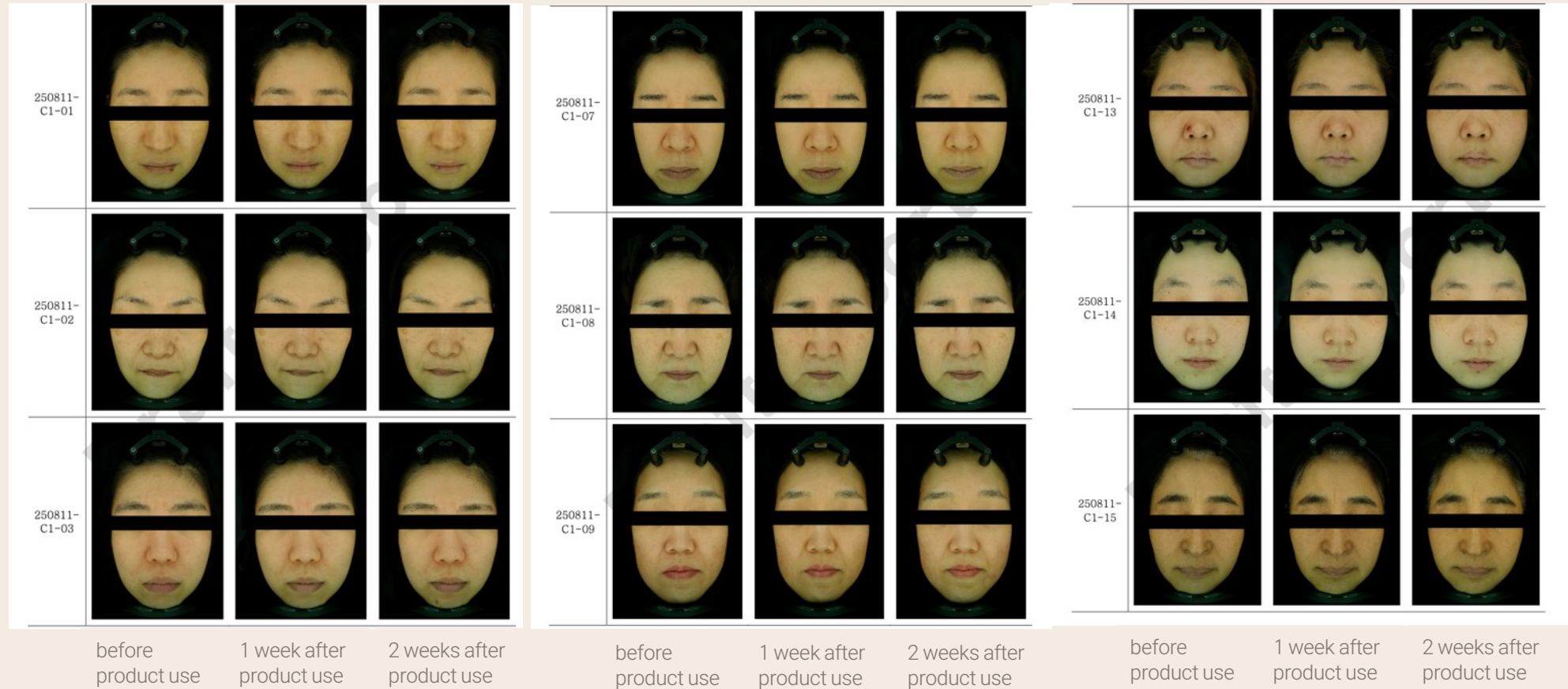
Clinical Test Report - 20 females (age 48±8)

- Skin tone



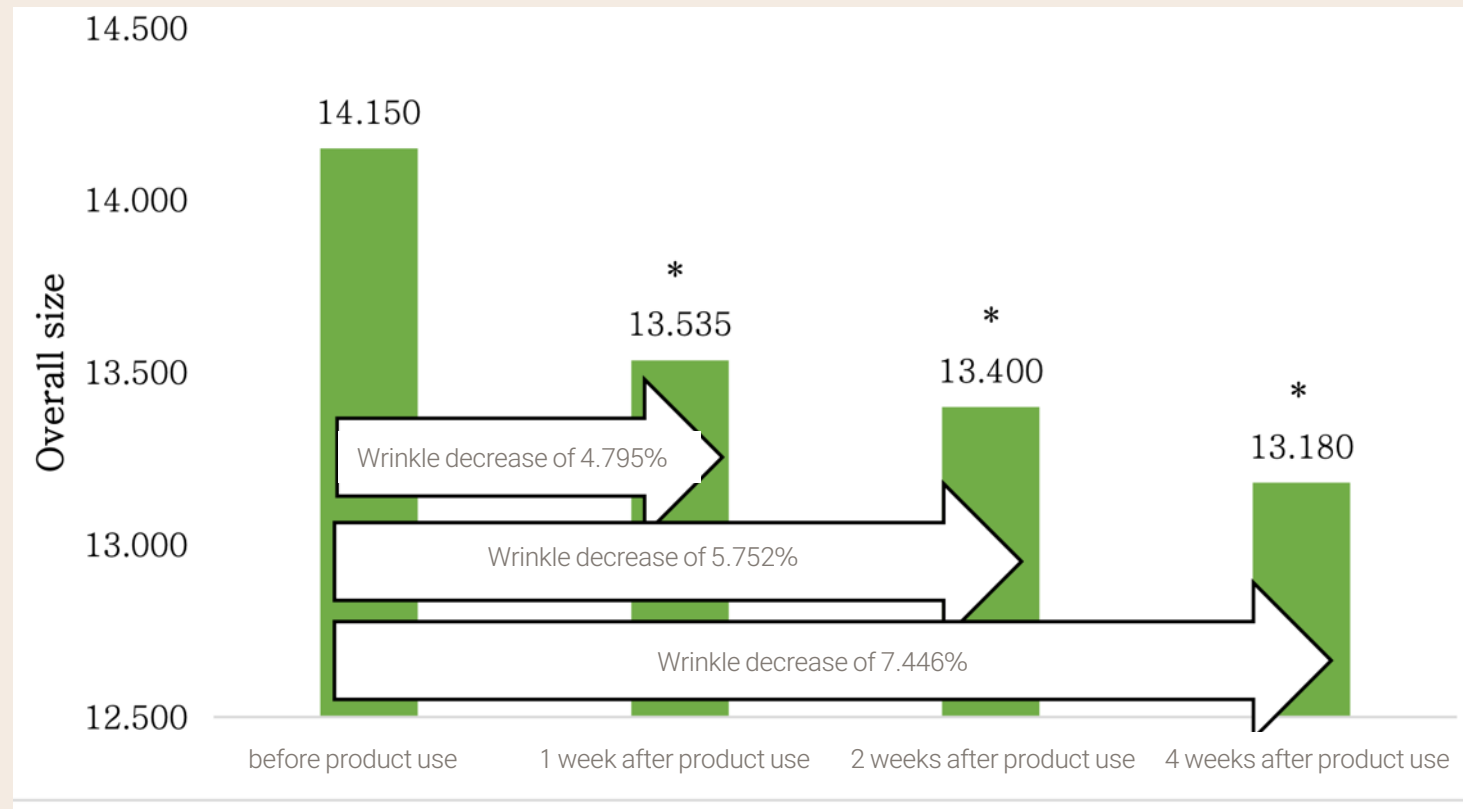
Clinical Test Report - 20females(age 48±8)

- Skin tone



Clinical Test Report - 20females(age 48±8)

- Periorbital wrinkles



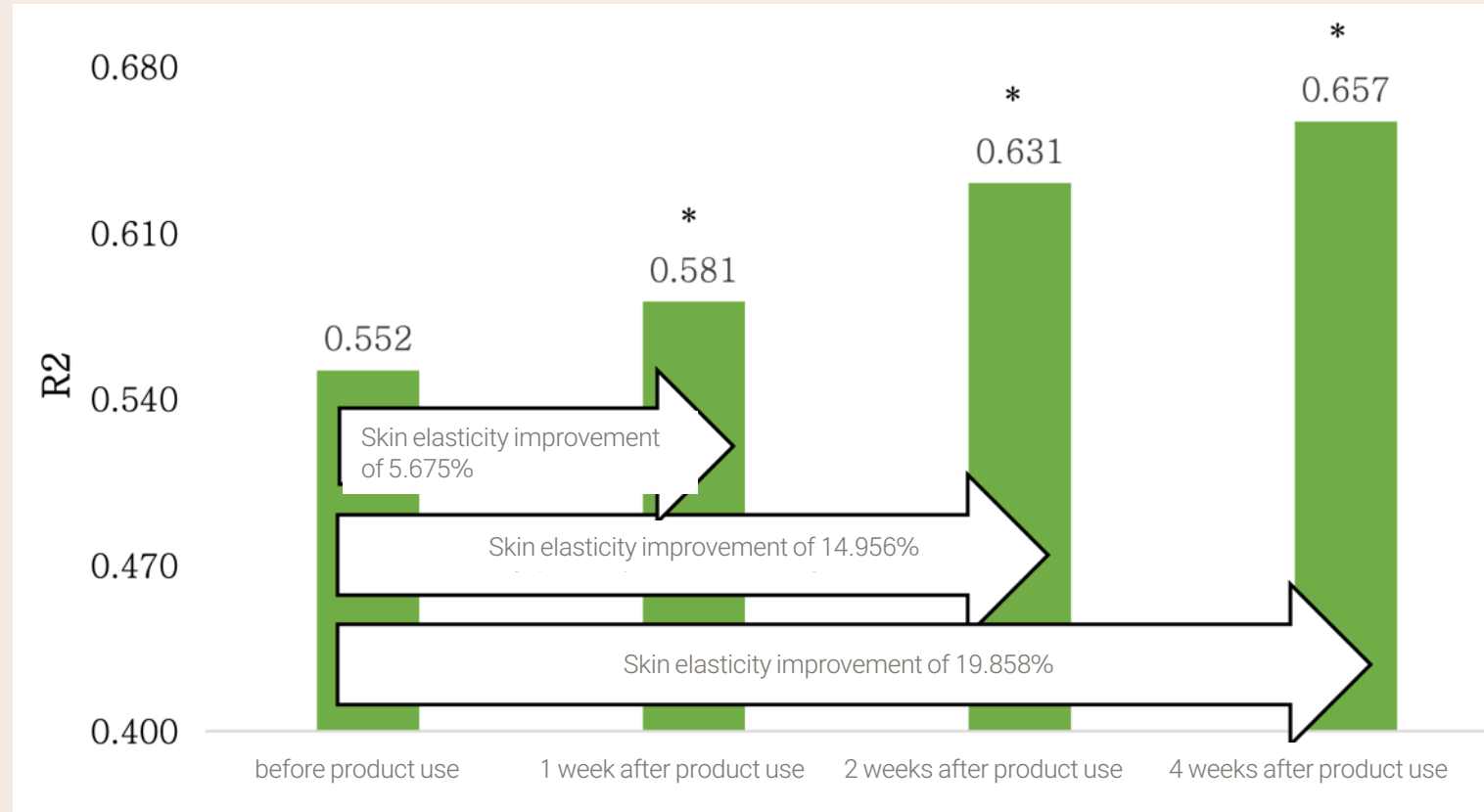
Clinical Test Report - 20females(age 48±8)

- Periorbital wrinkles



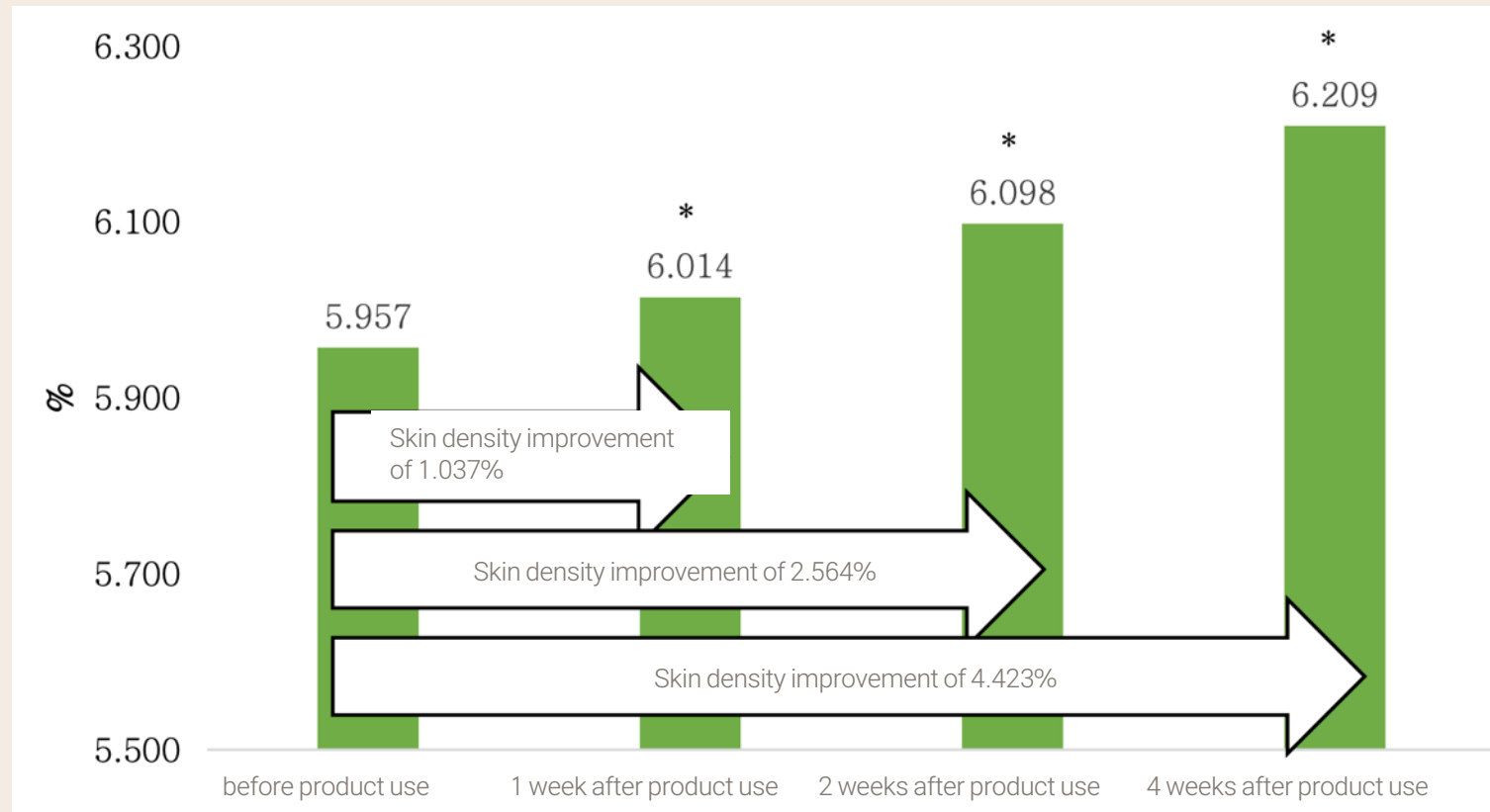
Clinical Test Report - 20 females (age 48±8)

- Skin elasticity



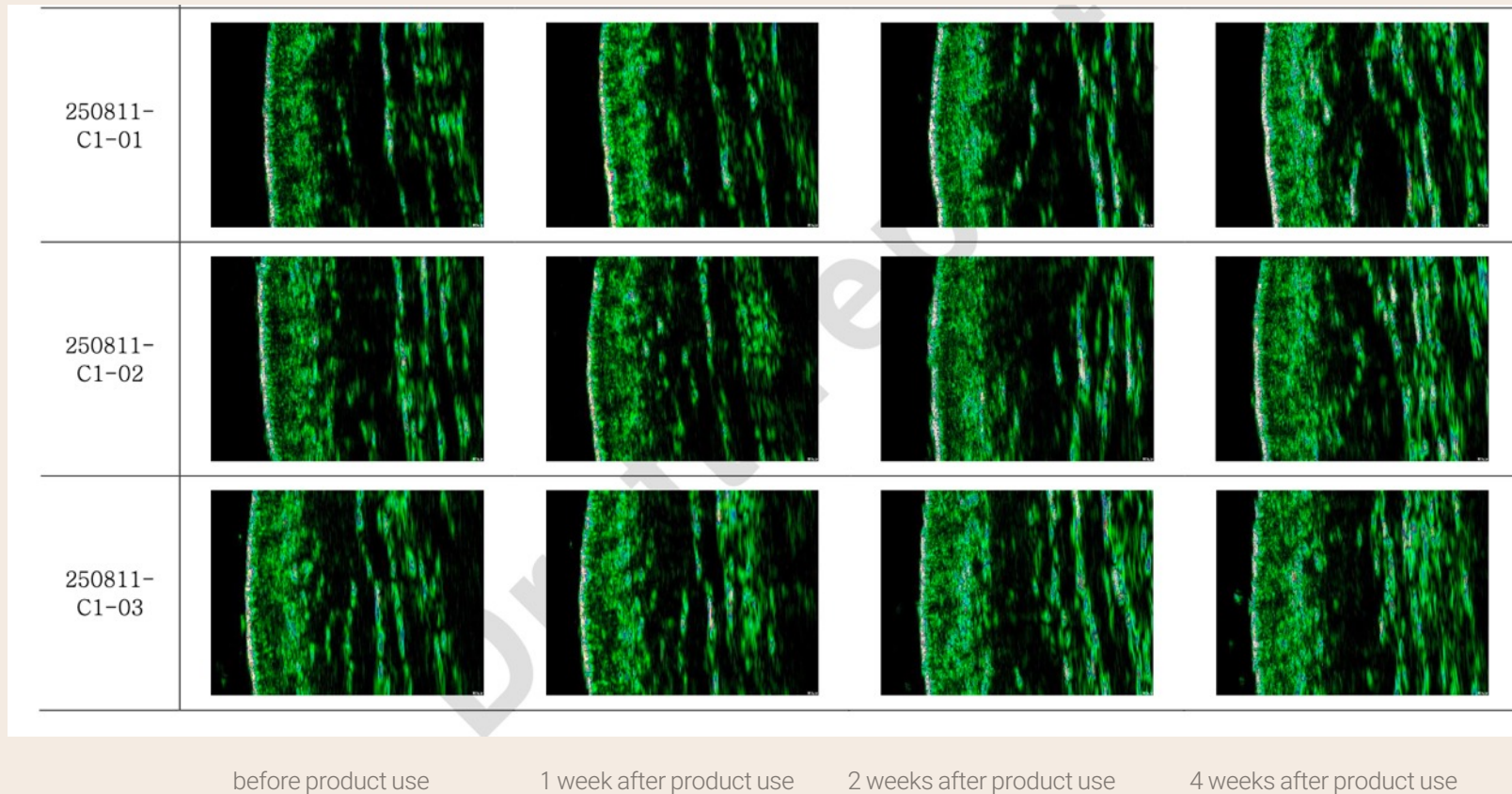
Clinical Test Report - 20females(age 48±8)

- Skin Density



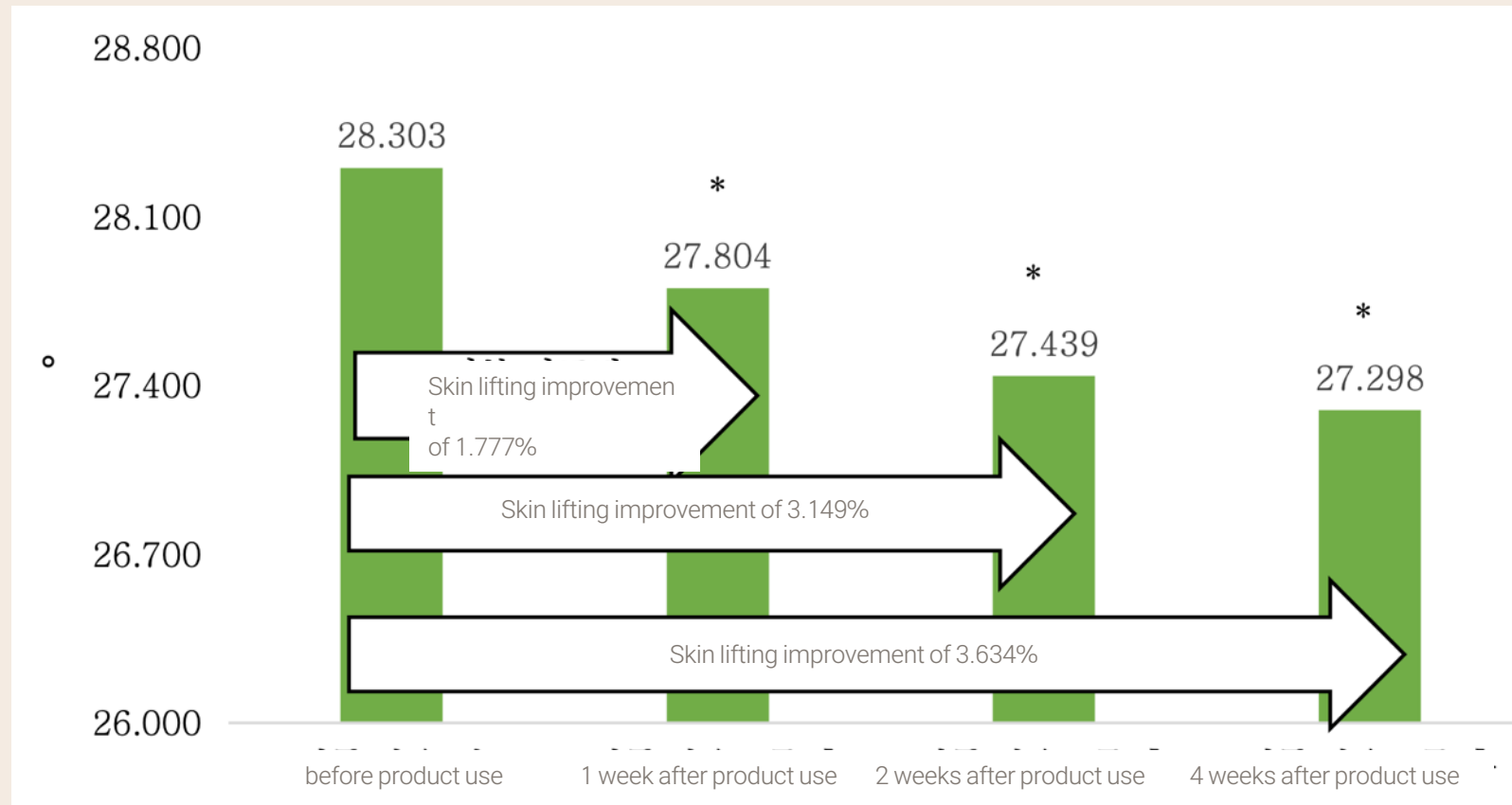
Clinical Test Report - 20females(age 48±8)

- Skin Density(Skin scanner DUB)



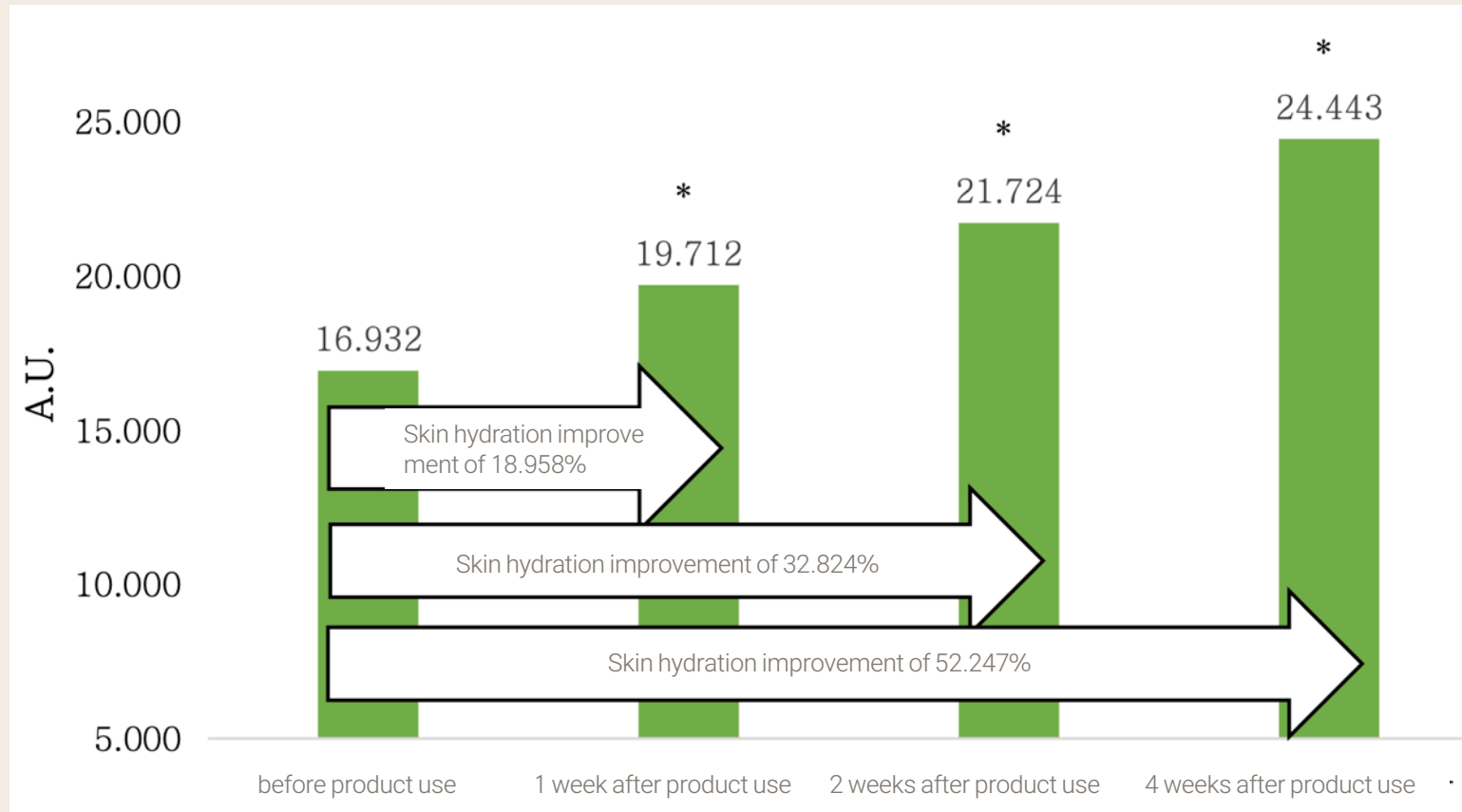
Clinical Test Report - 20females(age 48±8)

- Cheek lifting angle(low number means improved)



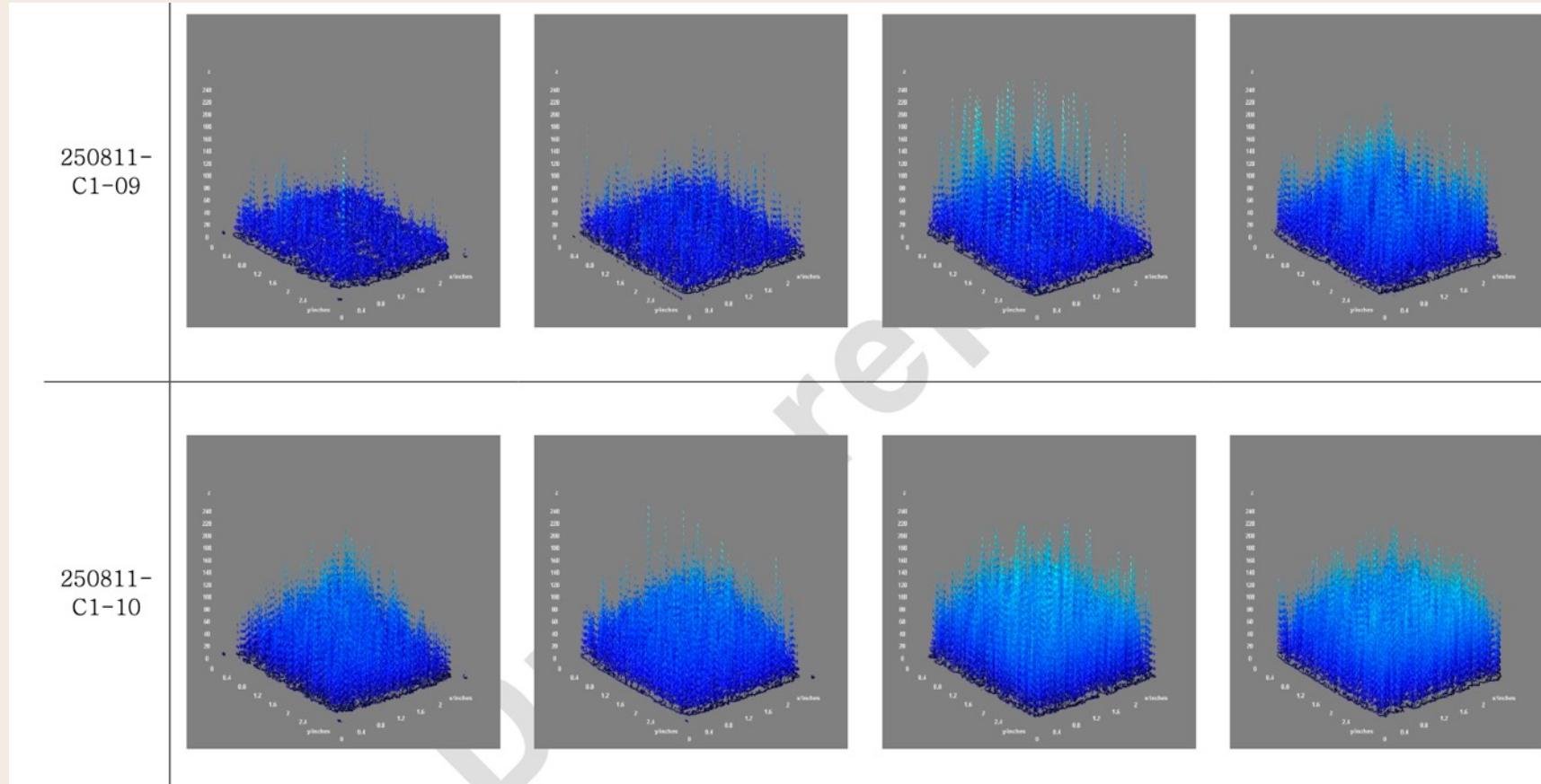
Clinical Test Report - 20 females (age 48±8)

- Skin moisture content



Clinical Test Report - 20females(age 48±8)

- Skin moisture content _ Epsilon



before product use

1 week after product use

2 weeks after product use

4 weeks after product use

Clinical Test Report - 20females(age 48±8)

- Adverse reaction evaluation results

	Skin adverse reactions(type)						
Time	Erythema	swelling	itching	stinging	burning	stiffness	tingling
Right after use	-	-	-	-	-	-	-
1 week after use	-	-	-	-	-	-	-
2 weeks after use	-	-	-	-	-	-	-
4 weeks after use	-	-	-	-	-	-	-

** 3 Levels- 1: mild , 2: medium, 3: severe

Clinical Test Report - 20females(age 48±8)

- Survey

Subject Survey Evaluation after 4 Weeks of Product Use		
List	Average±Standard deviation	Positive response rate
Skin Absorption (Amount of Skin Absorption, Depth of Absorption, Absorption rate)	4.300±0.571	100.000
Improvement in Skin Wrinkles	4.100±0.553	100.000
Improvement in Skin Elasticity	4.300±0.571	100.000
Improvement in Skin Density	4.200±0.616	100.000
Improvement in Skin Lifting	4.100±0.718	100.000
Improvement in Skin Moisturizing	4.500±0.513	100.000
Willing to Recommend the Product	4.300±0.571	100.000
Willing to Purchase the Product	4.300±0.571	100.000
Overall Satisfaction with the Product	4.300±0.571	100.000

5-point scale - 5: Very satisfied, 4: Satisfied, 3: neutral, 2: dissatisfied, 1: very dissatisfied

Positive response rate (%) – Percentage of subjects who answered 3 or higher (average, satisfied, very satisfied)

Clinical Test Report - 20females(age 48±8)

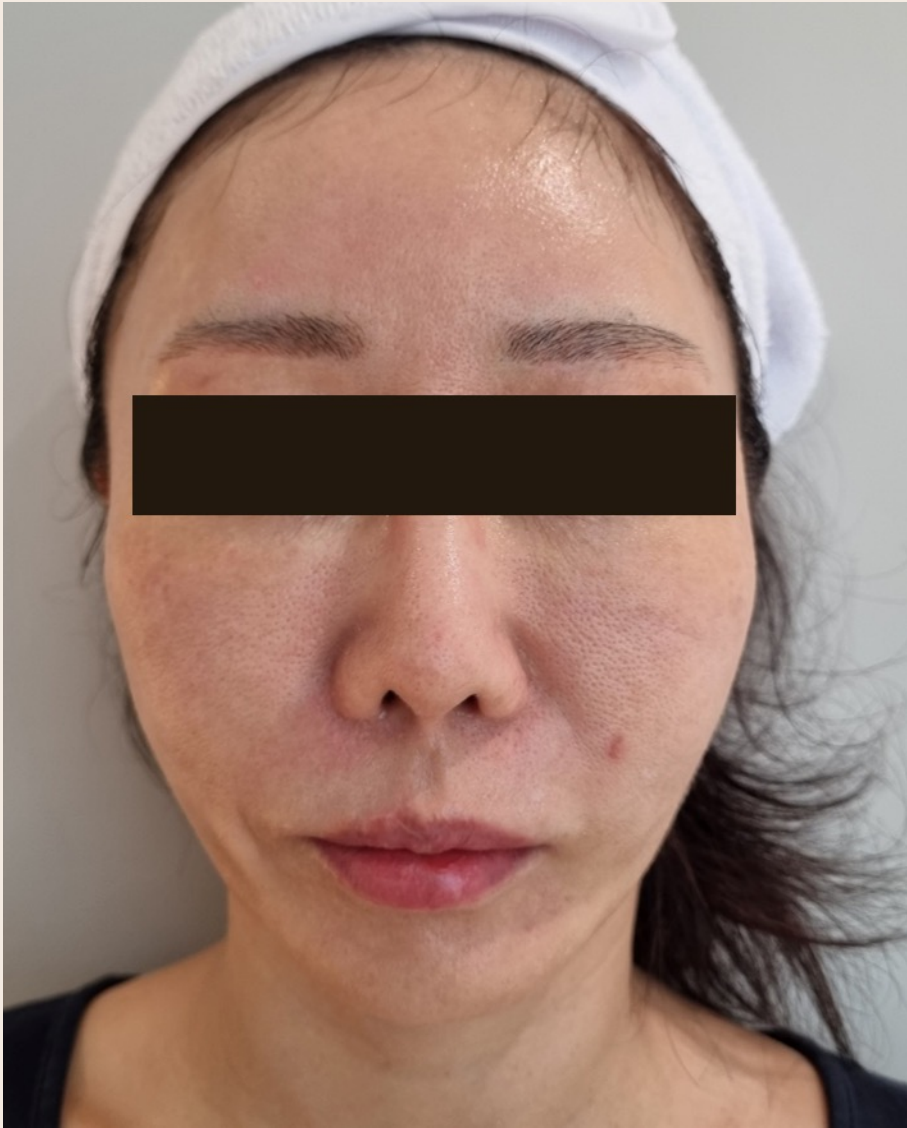
-Conclusion

No specific skin adverse reactions were reported during the trial period. Therefore, the trial product, "GENOSYS Bio Meso PDRN Expert Ampoule 60000," is considered a product that can help improve absorption ($\mu\text{g}/\text{cm}^3$), absorption depth (μm), absorption rate ($\mu\text{m}/\text{min}$), keratin turnover, skin tone, wrinkles, skin elasticity, skin density, skin lifting, and skin hydration with a single use and this product can contribute to anti-aging by improving wrinkles, skin elasticity, skin density, skin lifting, and skin hydration.

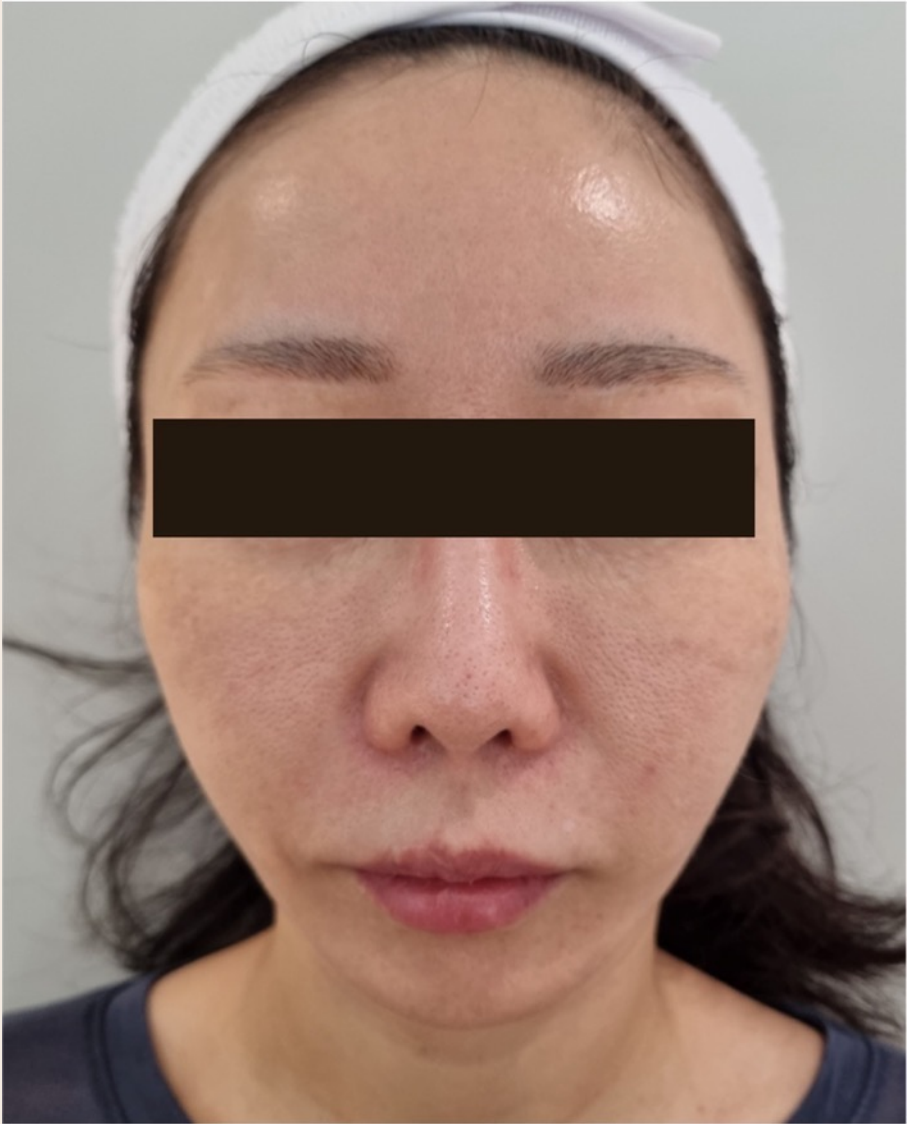
- This Clinical test was performed by KC Skin Research Center in Seoul, Korea from August 11 to September 9 2025.

In-house Trials with
Bio-Meso PDRN Expert Ampoule 60000

Case 1) 1 Treatment Session



[August 13]



[August 20]

47 year old woman

Case 1) 1 Treatment Session



[August 13]



[August 20]

47 year old woman

Case 2) 1 Treatment Session



[August 08]



[August 14]

48 year old woman

Case 2) 1 Treatment Session



[August 08]



[August 14]

48 year old woman

Case 3) 1 Treatment Session



[August 08]



[August 14]

21 year old woman

Case 3) 1 Treatment Session



[August 08]



[August 14]

21 year old woman

Case 4) 1 Treatment Session



[August 13]



[August 20]

48 year old man

Case 4) 1 Treatment Session



[August 13]



[August 20]

48 year old man



[August 19]

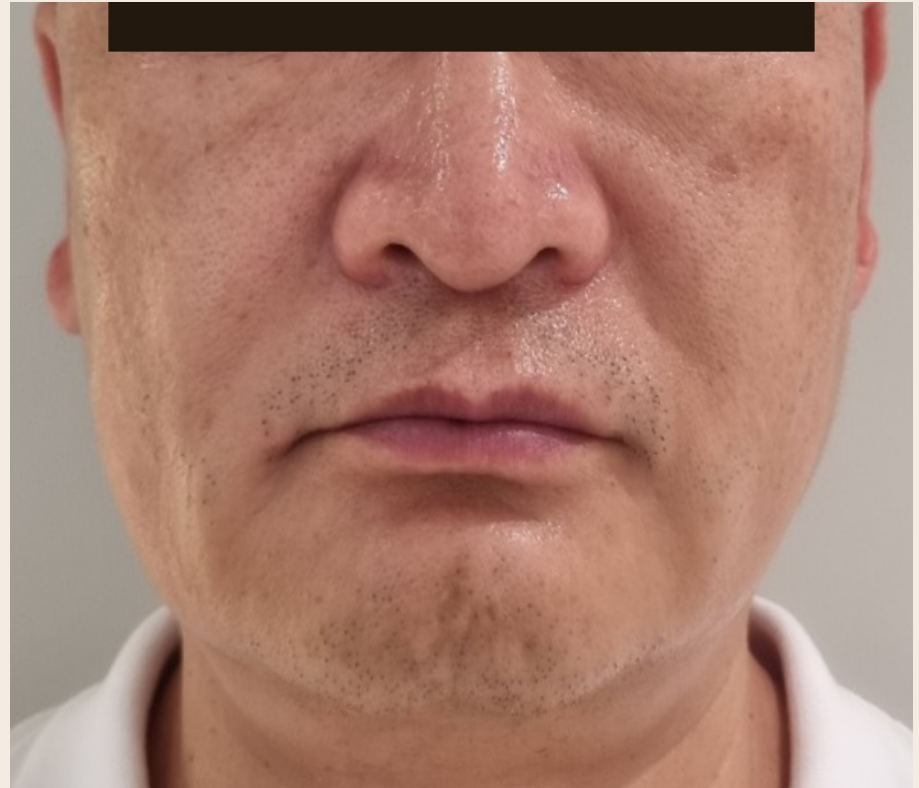


[August 25]

Case 5) 1 Treatment Session



[August 19]



[August 25]

Case 6) 1 Treatment Session



Case 7) 1 Treatment Session





THANK YOU.

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