

# KOCOSTAR COLLAGEN CREAM (T1 COLLAGEN)

## < Human Body Application Test Report >



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A clinical study designed to evaluate the 24-Hour skin radiance (gloss) effect of T1 Collagen 100.

**Subjects:** 22 females aged between 30 and 60

### **Test Result:**

1. Compared to before using the testing substance, the skin gloss increased by 36.53% immediately after one use and 29.66% after 24 hours, indicating the 24-hour lasting effect of skin radiance.
2. No adverse skin reactions were observed during the clinical test.

### **Conclusion:**

The product helps to maintain skin radiance for 24 hours.



# < Result Of Human Body Application Test >

## 1. Basic information of test subjects

The information of test subjects who participated in this test is as follows (Tables 1&2).

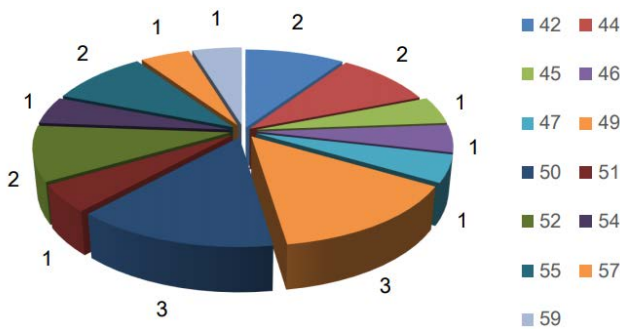
Registered test subject	21 people
Final completed test subject	21 people
Gender	Female
Average age	Avg 49.62 years old
Standard Deviation	4.77

Table 1. Basic information of test subjects

Registered test subject	20 people
Final completed test subject	20 people
Gender	Female
Average age	Avg 35.75 years old
Standard Deviation	8.94

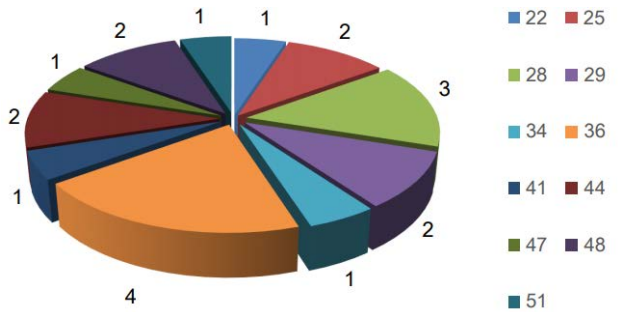
Table 2. Basic information of the test subject (skin absorption)

The age of each test subject who participated in this test is shown in Figures 8&9.



↑ Figure 8.

Age distribution of test subjects.



↑ Figure 9.

Age distribution of test subjects (Skin absorption).

## 2. Evaluation of deep elasticity improvement before and after test substances

Compared with before, both the test material application area and the control material application area are immediately After one use and 2 weeks after use, it was statistically significant ( $p < .001$ ), which is thought to **help improve deep elasticity**.

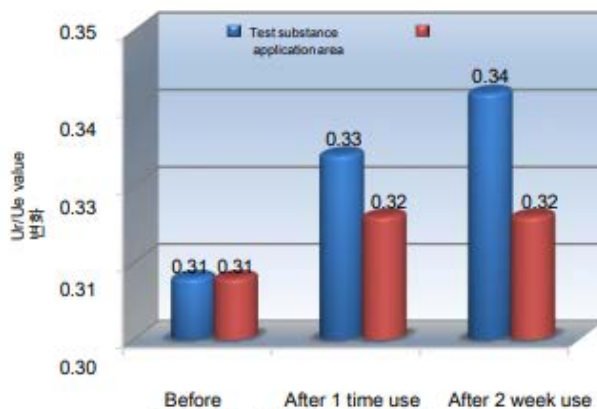


Fig 10. Ur/Ue value changes

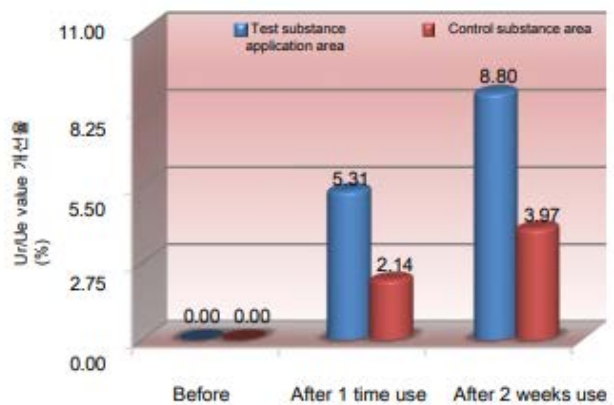


Fig 11. Ur/Ue value improvement (%).

### 3. Evaluation of skin moisturizing improvement before and after substance use

As a result of analyzing the degree of skin moisture improvement in the left cheek area using Epsilon E100, the skin moisture was Compared with before vaginal use, 99.80% immediately after one use and 37.44% after 2 weeks of use showed a change. In addition, compared to before use of the test substance, it was statistically significant immediately after one use and after two weeks of use ( $p < .001$ ). It is judged that the test substance **helps improve skin moisturization**.

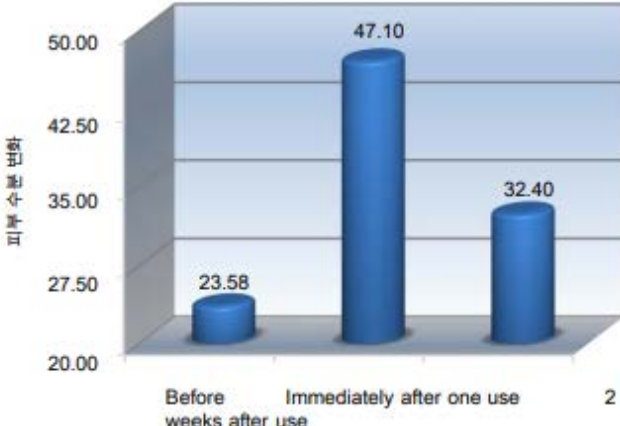


Figure 12. Skin moisture changes

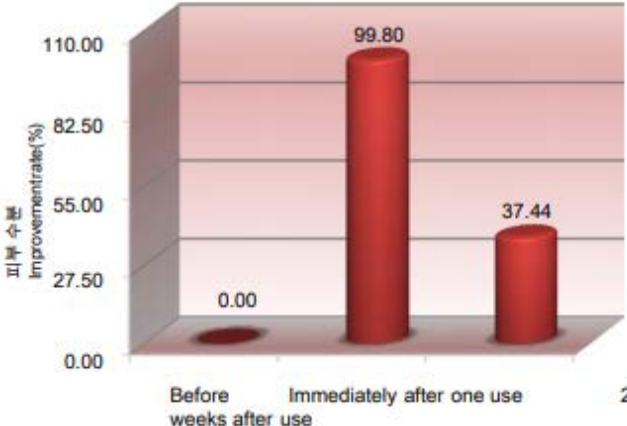


Figure 13. Skin moisture Improvement rate(%)

\* Analysis of skin moisturizing of 3 of the 21 subjects.

	Before	Immediately after one use	2 weeks after use
Subject A			
Subject B			
Subject C			

#### 4. Evaluation of the improvement of fine wrinkles around the eyes after the test substance

As a result of analyzing the degree of improvement of fine lines around the left eye area using ANTERA 3D, wrinkles on the skin The Wrinkles small value indicating a decrease of 9.23% after 2 weeks of use compared to the test substance Before. In addition, it was statistically significant after 2 weeks of use compared to the test substance before ( $p < .05$ ).

It is judged that the test substance **helps to improve fine wrinkles around the eyes**.

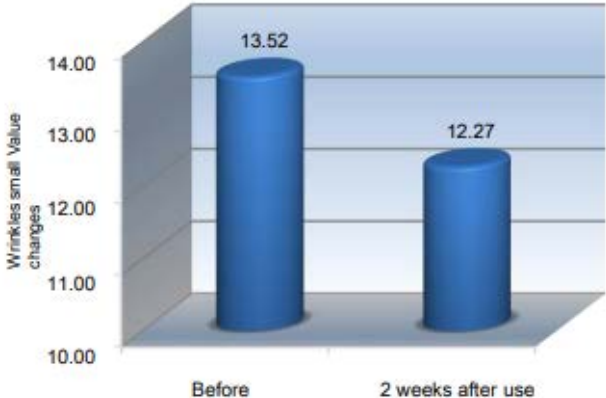


Figure 14. Wrinkles small Value changes

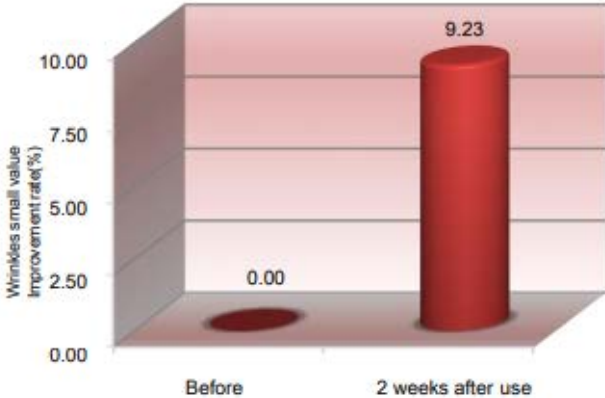
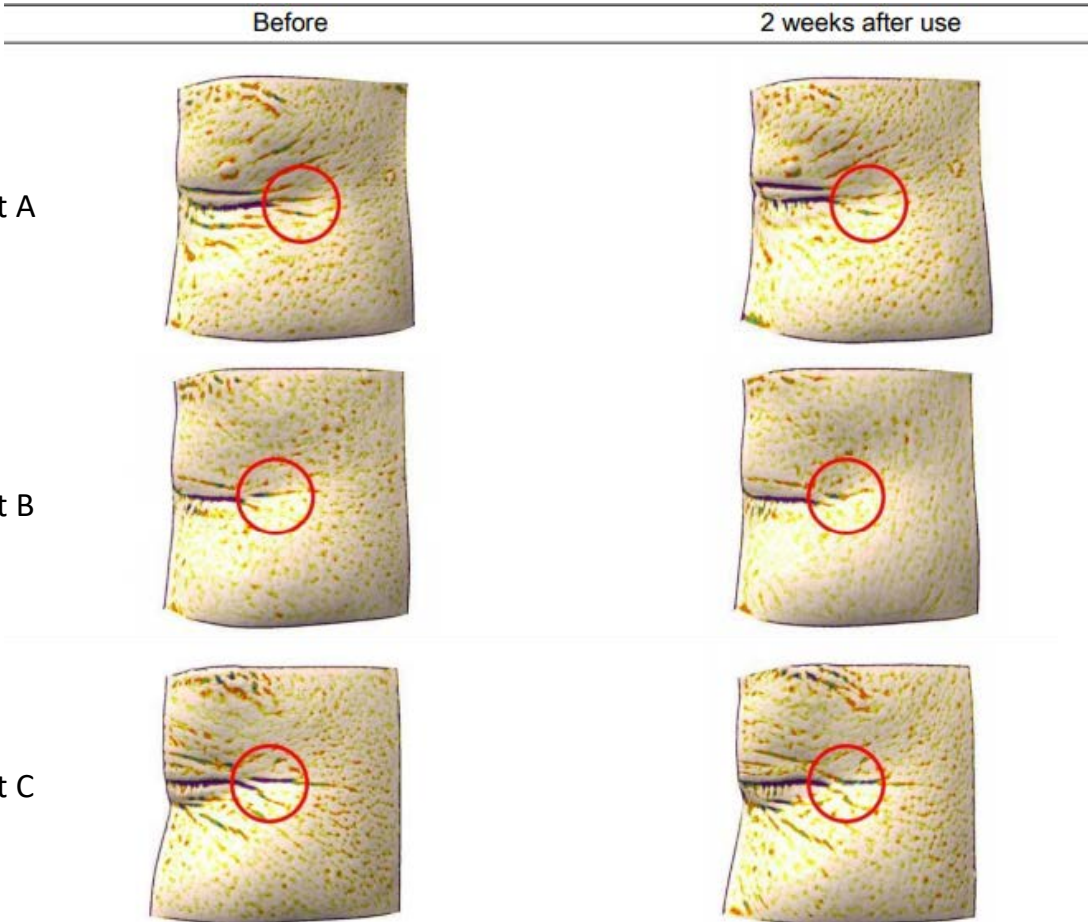


Figure 15. Wrinkles small value Improvement rate(%)

**\* Analysis of fine wrinkles around the eyes of 3 of the 21 subjects.**



## 5. Evaluation of improvement of nasolabial thick wrinkles

As a result of analyzing the degree of improvement of thick nasolabial folds on the left nasolabial fold using ANTERA 3D, Wrinkles large value indicating wrinkles showed a change of 16.40% reduction after 2 weeks of use compared to the test substance Before. In addition, compared to the test substance before, it was statistically significant after 2 weeks of use ( $p < .001$ ).

And it is judged that the test substance **helps improve nasolabial thick wrinkles**.

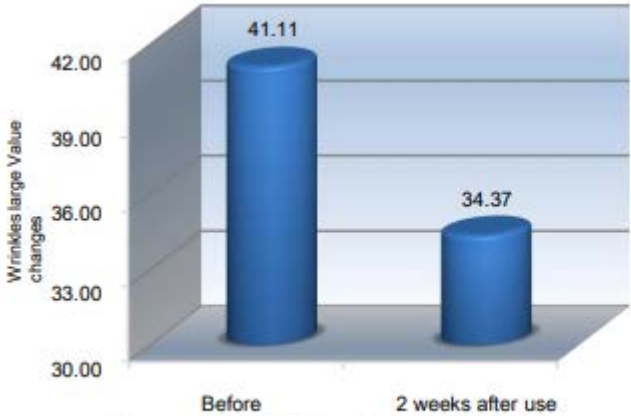


Figure 16. Wrinkles large Value changes

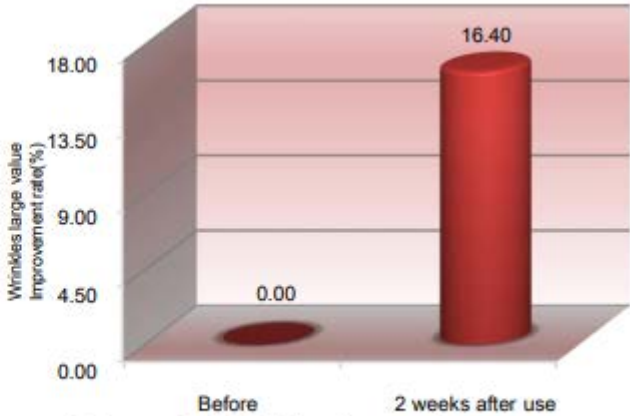
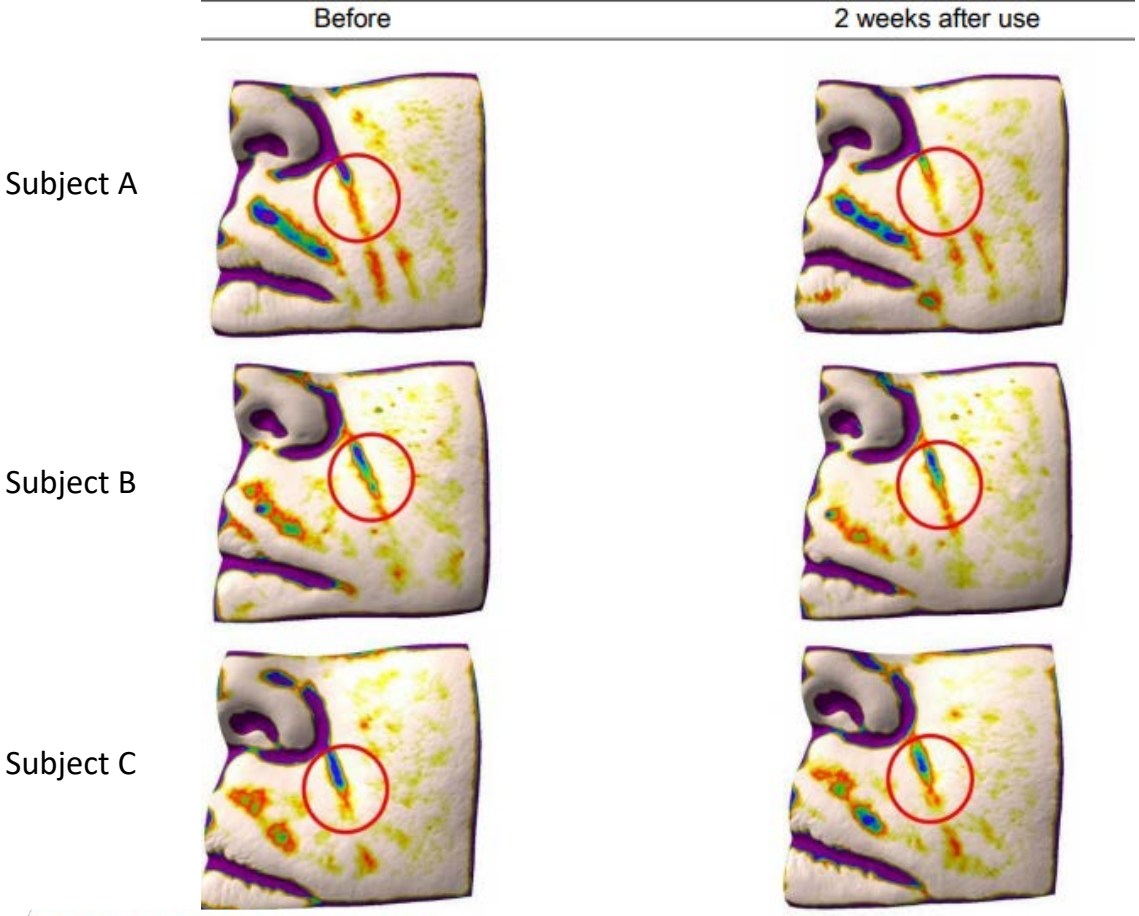


Figure 17. Wrinkles large value Improvement rate(%)

**\* Analysis of nasolabial folds of 3 of the 21 subjects.**



## 6. Evaluation of improvement of neck wrinkle depth after test substance

As a result of analyzing the degree of improvement of the neck wrinkle depth in the neck wrinkle area using ANTERA 3D, the wrinkle depth of the skin. The indicated maximum depth value showed a change in which 14.04% of use was decreased after 2 weeks compared to the test substance Before. In addition, compared to the test substance before, it was statistically significant after 2 weeks of use ( $p < .001$ ).

It is judged that the test substance **helps to improve the depth of neck wrinkles**.

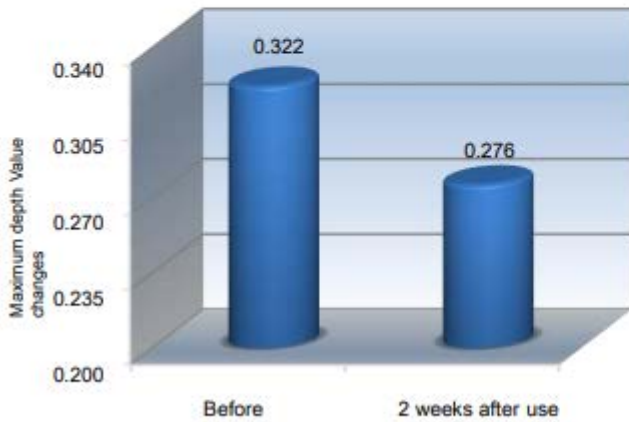


Figure 18. Maximum depth Value changes

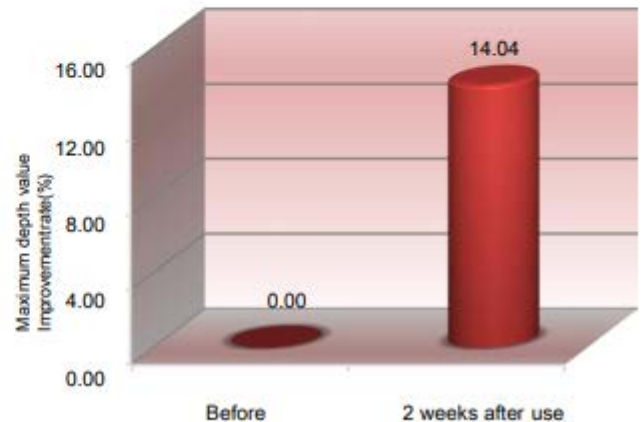
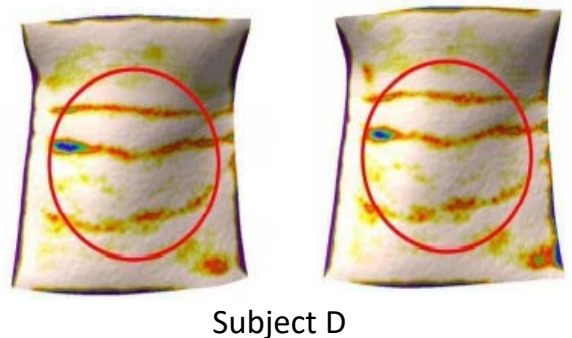
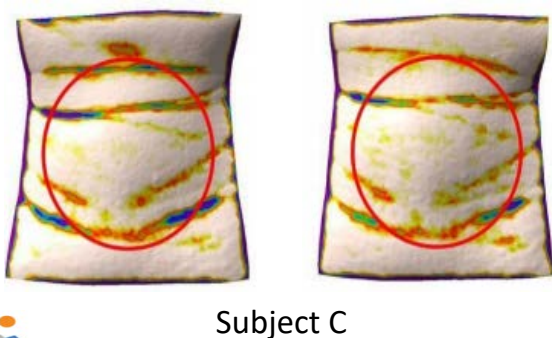
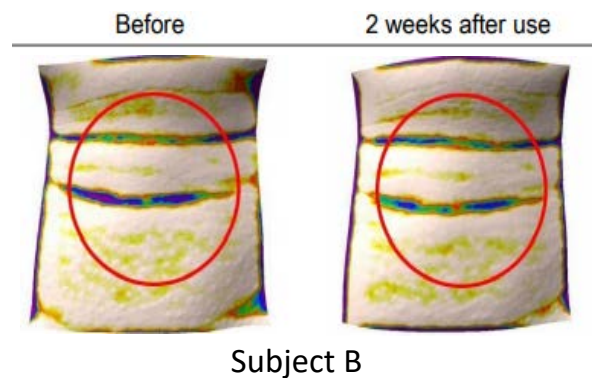
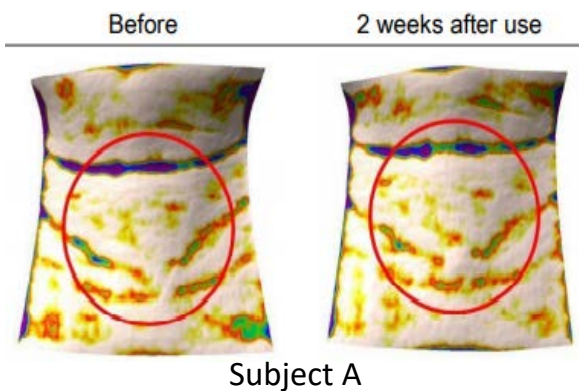


Figure 19. Maximum depth value Improvement rate(%)

\* Analysis of neck wrinkle depth of 4 of the 21 subjects.



## 7. Evaluation of improvement of lifting of cheek part after test substance

As a result of analyzing the improvement degree of lifting of the cheek part of the left cheek part using ANTERA 3D, The Depressions medium value representing the volume showed a change of 22.55% immediately after one use and 16.18% after 2 weeks of use compared with the test substance Before. In addition, compared to the test substance Before, Immediately after one use and 2 weeks after use were statistically significant ( $p < .001$ ).

It is judged that the test substance **helps improve the lifting of the cheek area.**

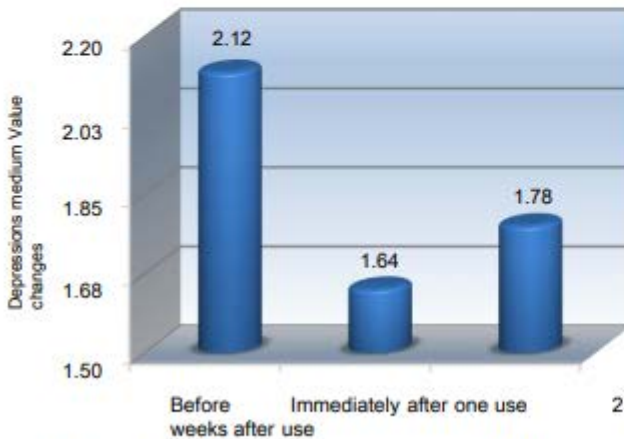


Figure 20. Depressions medium Value changes

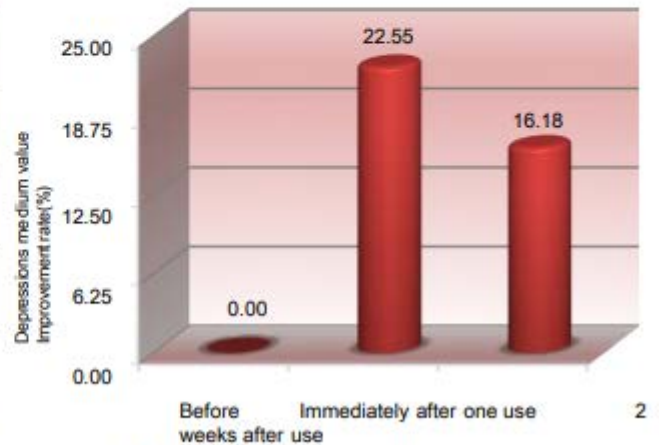
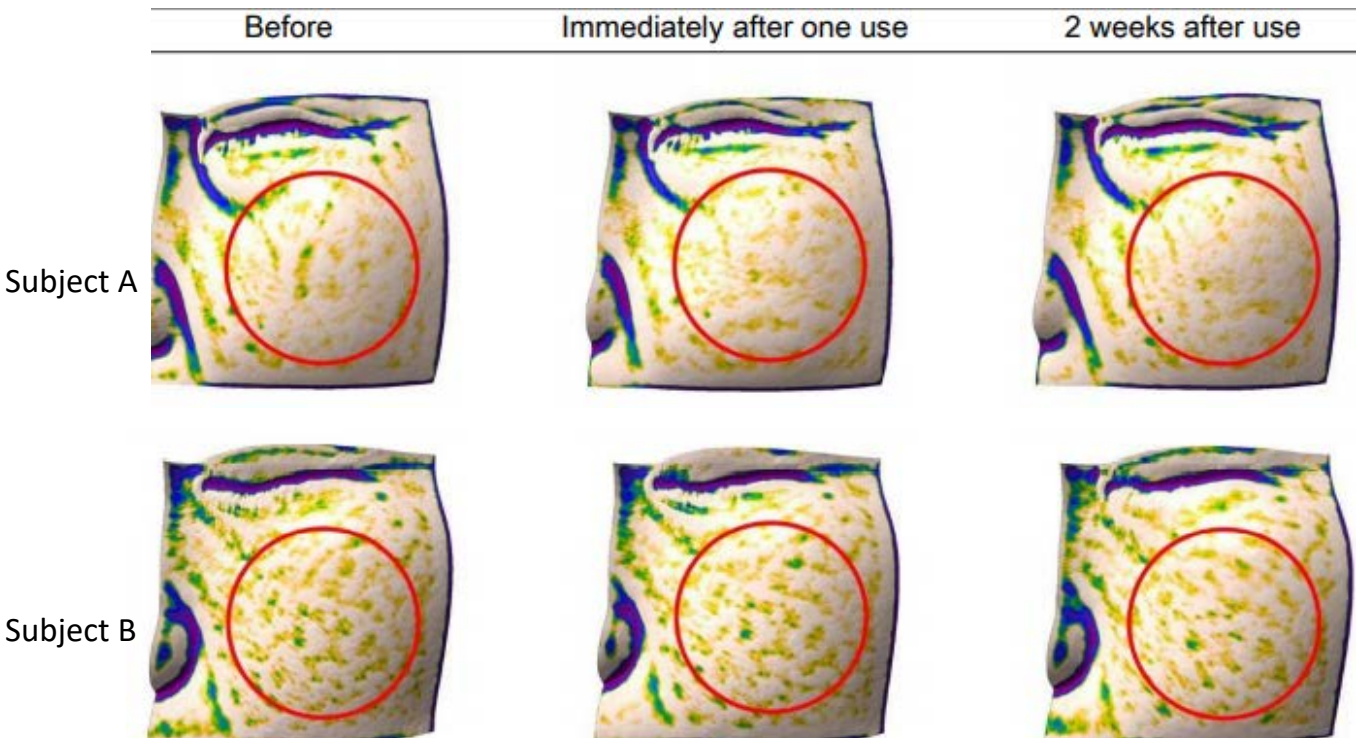


Figure 21. Depressions medium value Improvement rate(%)

\* Analysis lifting of cheek of 2 of the 21 subjects.





## 8. Evaluation of skin density improvement after testing substance

As a result of analyzing the degree of improvement of skin density at the 3 cm area next to the left tail using the DUB-Skin Scanner, The density value representing the skin density showed a change of 5.58% increase after 2 weeks of use compared to the test substance before. In addition, compared to the test substance before, it was statistically significant after 2 weeks of use ( $p < .001$ ).

It was judged that the test substance **helped improve skin density**.

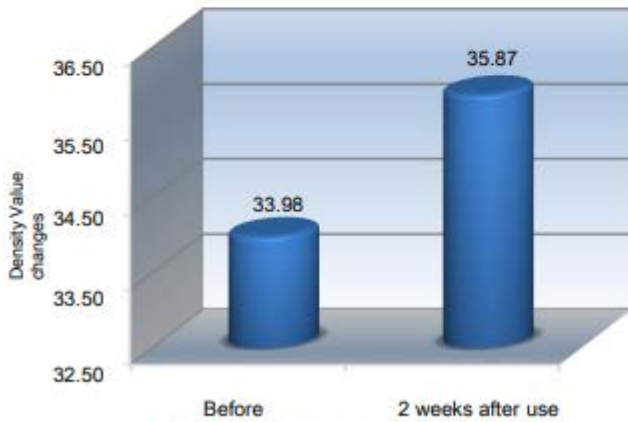


Figure 22. Density Value changes.

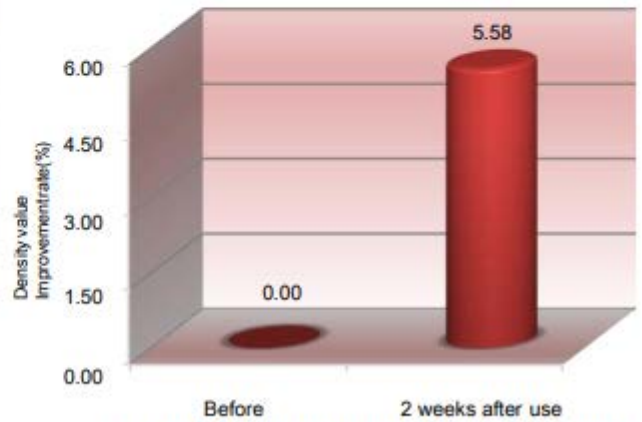


Figure 23. Density value Improvement rate(%).

## 9. Evaluation of alleviation of blemishes and pigmentation before and after use of the test substance

As a result of analyzing the degree of improvement in relieving spots and pigmentation in the left cheek area using ANTERA 3D, The melanin value indicating taste and pigmentation showed a change of 1.13% decrease after 2 weeks of use compared to the test substance Before. In addition, compared to the test substance before, it was statistically significant after 2 weeks of use ( $p < .05$ ).

The test substance was judged to **help alleviate spots and pigmentation**.

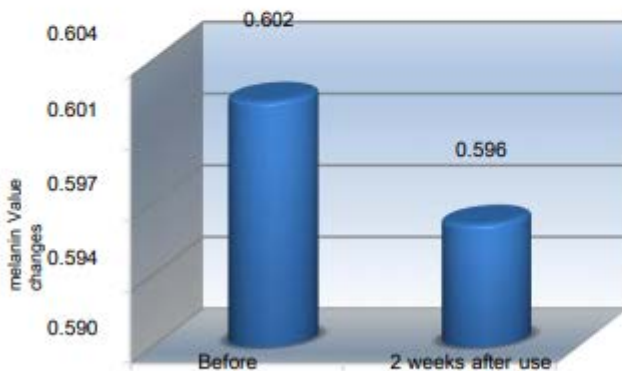


Figure 24. melanin value change

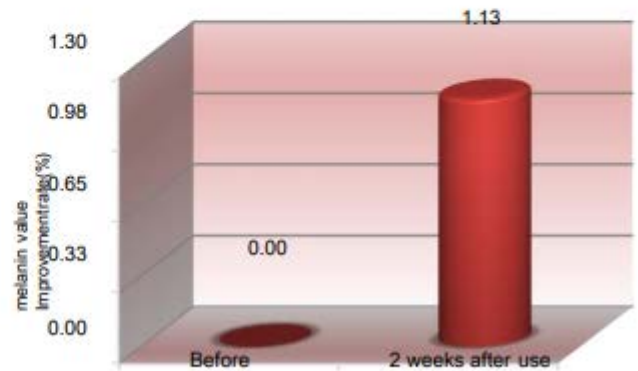


Figure 25. melanin value Improvement rate(%)

# 10. Evaluation of improvement of skin absorption (compared to use of Simfle Stick's own products) before and after test substance use

As a result, the maximum penetration depth of the skin increased statistically ( $p < .05$ ) up to 24  $\mu\text{m}$  immediately after one use at the application site and 20  $\mu\text{m}$  after 1 hour of use compared to the test substance before, once in the control material application area. It showed a statistically significant change ( $p < .05$ ) up to 20  $\mu\text{m}$  immediately after use and 12  $\mu\text{m}$  after 1 hour of use. Compared to the control material application area, the maximum penetration depth of the test substance application area was immediately after one use It was found to be about 1.2 times deeper after use and about 1.7 times after 1 hour of use. In addition, the skin penetration rate was 0.80  $\mu\text{m}/\text{min}$  in the test substance application area and 0.67  $\mu\text{m}/\text{min}$  in the control material application area, indicating that the skin penetration rate in the test substance application area was about 1.2 times faster than the control material application area. In addition, the content of the test substance in the skin, the highest penetration depth of the skin, was 34093.6 AU immediately after one use, and 19368.1 AU after 1 hour of use. It was found to be 1112.4 AU for use, and 898.9 AU after 1 hour of use. Therefore, the skin transmittance was 43.19% after 1 hour of use in the test substance application area and 19.20% after 1 hour of use in the control material application area. Compared to the control material application area, the skin transmittance of the test substance application area is about 2.2 times higher.

It appears that the test substance (compared to the company's product) is believed to **help improve skin absorption**.

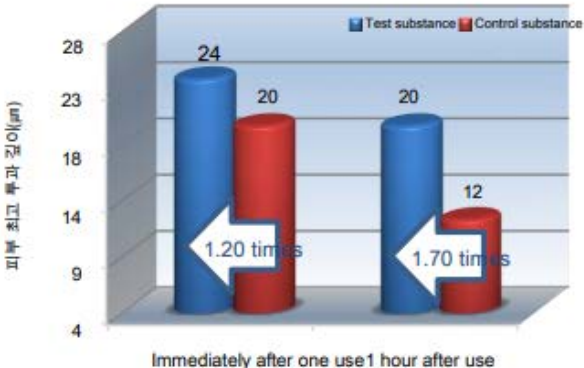


Figure 26. Maximum penetration depth of the skin

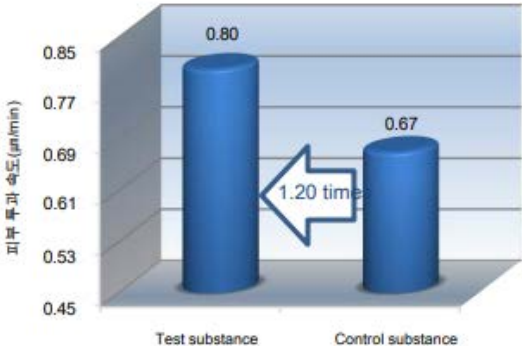


Figure 27. Skin penetration rate

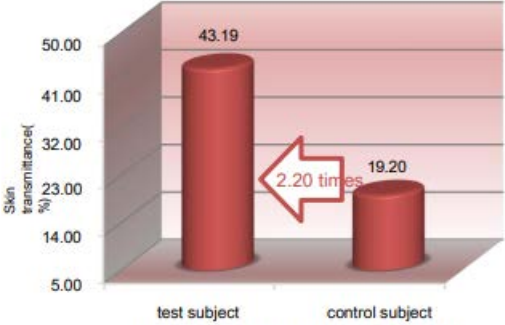


Figure 28. Skin transmittance(%)

## 11. Skin adverse reaction evaluation

### 1) Evaluation of adverse skin reactions by test personnel

No adverse reactions to allergic contact dermatitis or irritant contact dermatitis were observed after using the test substance in the test subject.

### 2) Report of adverse skin reactions by test subject survey

No specific adverse skin reactions were observed in the questionnaire survey of test subjects.



**KOCOSTAR  
COLLAGEN CREAM  
(T1 COLLAGEN)**

BRING NATURAL RADIANCE.  
FILL IN THE CREASES  
WITH HYDROLYZED COLLAGEN CREAM.

# KOCOSTAR COLLAGEN CREAM (T1 COLLAGEN)

## < Conclusion >

It is believed to be a product that **helps improve absorption of the deep elasticity, moisturizing the skin, fine wrinkles around the eyes, deep nasolabial folds, deep neck wrinkles, lifting of cheeks, skin density, and reduction of spots and pigmentation.**

**In addition, it is helpful in improving the three types of skin wrinkles by improving the depth of wrinkles around the eyes, thick nasolabial folds, and neck wrinkles.**

