

# Clinical Report

**Clinical study on improvement of lip hydration  
of “KOCOSTAR PEACH DUODUO LIP OIL IN CREAM”**

**Requester: First market**

**July 19<sup>th</sup>, 2021**



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# Authentication

KC Skin Research Center Co., Ltd. reports the study results of clinical study on improvement of lip hydration of “KOCOSTAR PEACH DUODUO LIP OIL IN CREAM” requested by First market. This study was performed by KC Skin Research Center Co., Ltd.’s Standard Operating Procedure (SOP) to report as following. This report is a translation of the Korean report into English.

**July 19<sup>th</sup>, 2021**

Research Facility: KC Skin Research Center Co., Ltd.

Research Chief: KC Skin Research Center Co., Ltd. CEO Mi Sook Park 

Chief Researcher: KC Skin Research Center Co., Ltd. Director of Research  
Inje University Ilsan Paik Hospital

Dermatologist Sun Young Choi 

\* At the time of the test

Researchers in charge: KC Skin Research Center Co., Ltd.

Expert Researcher	Sun Mi Kim
Senior Researcher	Hye Jin Oh
Researcher	Ji Eun Kim
Researcher	Seo Yeon Lee
Researcher	Man Jin Choi
Researcher	Min Jung Cho
Researcher	Ji Eun Heo
Researcher	You Kyung Koh

# Conformation

This clinical study was processed in accordance with KC Skin Research Center Co., Ltd.'s own Quality Assurance Regulations. Study results are reported accurately and conscientiously on Study protocol agreed by KC Skin Research Center Co., Ltd. and the requester First market.

- Study Title: Clinical study on improvement of lip hydration of “KOCOSTAR PEACH DUODUO LIP OIL IN CREAM”
- Study Code: KC-210415-AA003p
- IRB Approval Number: 1-70005235-A-N-01-202105-HR-KC-210510-C1-02

Approval Point	Approval Result	Date
Study Protocol	Approved	2021. 04. 15
Study Process	Approved	2021. 05. 10
Data Checkup	Approved	2021. 05. 21
Report Checkup	Approved	2021. 05. 24
English Report Translation	Approved	2021. 07. 16
English Report Checkup	Approved	2021. 07. 19

**July 19<sup>th</sup>, 2021**

Current Chief Researcher: KC Skin Research Center Co., Ltd. Research Director  
 Inje University Ilsan Paik Hospital

Dermatologist Sun Young Choi (sign)

Current Assurance charger: KC Skin Research Center Co., Ltd.

Principal Researcher Bae Jung Kim (sign)

## Summary report

Study Name	Clinical study on improvement of lip hydration of “KOCOSTAR PEACH DUODUO LIP OIL IN CREAM”
Study Identification Number	KC-210510-C1
Chief Researcher	KC Skin Research Center Co., Ltd. Director of Research Inje University Ilsan Paik Hospital Dermatologist Sun Young Choi (sign)
Testing Facility	KC Skin Research Center Co., Ltd. CEO Mi Sook Park (sign) Address: 6F, Yanghwa Bldg. 93 Yangpyeong-ro, Yeongdeungpo-gu, Seoul, Republic of Korea Tel: 02-6673-1150
Requester	First market Address: 53, Yulgok-ro, Jongno-gu, Seoul, Republic of Korea
Study Duration	May 10 <sup>th</sup> , 2021
Original Report Due	May 24 <sup>th</sup> , 2021
Original Report Charger	Researcher You Kyung Koh
English Report Due	July 19 <sup>th</sup> , 2021
English Report translation Charger	Researcher Hyun Hee Chung
Test Product	- KOCOSTAR PEACH DUODUO LIP OIL IN CREAM
Study Objective	Evaluation of product efficacy for improvement of lip hydration of “KOCOSTAR PEACH DUODUO LIP OIL IN CREAM”
Study Subject	Subjects who meet Inclusion criteria and do not meet Exclusion criteria: Recruit 20 subjects to finish with up to 20 subjects (Average age: 49.300±6.182years.)

<p>Subject Selection</p>	<ol style="list-style-type: none"> <li>1) Subjects Inclusion criteria                     <ul style="list-style-type: none"> <li>- Healthy subjects aged 19~60years</li> <li>- Subjects who have voluntarily signed the consent form after understanding study objective and contents</li> <li>- Subjects who can be observed and traced during the study period</li> <li>- Subjects who are not included in the exclusion criteria</li> </ul> </li> <li>2) Subjects Exclusion criteria                     <ul style="list-style-type: none"> <li>- Subjects who do not wish to apply or who has not written agreements</li> <li>- Subjects who have mental diseases</li> <li>- Subjects who have infectious skin diseases</li> <li>- Subjects who received immunosuppressant treatment within 3 months prior to the start of the study</li> <li>- Subjects who received whole body steroids or light treatment within a month prior to the start of the study</li> <li>- Subjects who have a lesion in the test area which makes difficult to measure</li> <li>- Female subjects who are pregnant or lactating</li> <li>- Subjects who have irritation or allergies on cosmetics, quasi-drugs, or daily sunlight</li> <li>- Subjects who are inappropriate to participate in the study on the judgement of the chief researcher or researcher in charge</li> </ul> </li> <li>3) Subject Withdrawal criteria                     <ul style="list-style-type: none"> <li>- Subjects who are willing to discontinue the study participation</li> <li>- Subjects who can't proceed with the test due to the occurrence of skin disease during the study</li> <li>- Subjects who have serious adverse reactions after using the test products</li> <li>- Subjects who violate method of use or schedule without special reason</li> </ul> </li> </ol>
<p>Study Method</p>	<p>20 subjects were recruited as a part of this study. The procedure for selection, recruitment, and inclusion of these subjects who signed the informed consent form to participate in the study without exclusion criteria enabled them to appraise the aim and the consequence of consent. The study aimed to evaluate the improvement of lip hydration of the test product. Products were applied in the test area of the subjects for once. The skin measurement and photo shoots were taken before and immediately after of application of the product.</p>
<p>Evaluation Method</p>	<ul style="list-style-type: none"> <li>- Measurement of lip hydration: Corneometer</li> </ul>
<p>Safety Evaluation</p>	<p>As a result of confirming adverse reactions to the product application area at each visit to a total of 20 subjects participating in the test, no specific adverse skin reactions to the product application area were reported during the application period of this test product.</p>

<p>Study Results</p>	<p>- 20 adult females aged 19~60 years participated in the study. As a result of 20 finished subjects by recruiting 20 subjects, applied the test product “KOCOSTAR PEACH DUODUO LIP OIL IN CREAM” for once on the lip area,</p> <p>1) Measurement results of lip hydration after application of the test product, the measured value of skin moisture content statistically significantly increased immediately after of application of the product as compared with before the application(<math>p&lt;0.05</math>).</p> <p>Therefore, the test product “KOCOSTAR PEACH DUODUO LIP OIL IN CREAM” is considered to be a product that can help with improve lip hydration with once application.</p>
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## Study Background

### 1. Product Information

Product Name	KOCOSTAR PEACH DUODUO LIP OIL IN CREAM
Product Identification Number	210510-C1-T1
Product Type	Pink colored semi-solid
Test Area	Lip area
How to use	After washing your face, apply an appropriate amount to your lips.
Period of use	Once
Ingredient	DIISOSTEARYL MALATE, DIPENTAERYTHRITYL HEXA C5-9 ACID ESTERS, HYDROGENATED POLYISOBUTENE, CAPRYLIC/CAPRIC TRIGLYCERIDE, MICROCRYSTALLINE WAX, SYNTHETIC WAX, BUTYROSPERMUM PARKII (SHEA) BUTTER, SORBITAN SESQUIOLEATE, ECLIPTA PROSTRATA EXTRACT, CURCUMA LONGA (TURMERIC) ROOT EXTRACT, POLYURETHANE-79, TOCOPHERYL ACETATE, FRAGRANCE, MELIA AZADIRACHTA LEAF EXTRACT, MELIA AZADIRACHTA FLOWER EXTRACT, MORINGA OLEIFERA SEED OIL, 1,2-HEXANEDIOL, CAPRYLYL GLYCOL, MELIA AZADIRACHTA BARK EXTRACT, CORALLINA OFFICINALIS EXTRACT, OCIMUM SANCTUM LEAF EXTRACT, MACADAMIA TERNIFOLIA SEED OIL, CAMELLIA SINENSIS SEED OIL, OLEA EUROPAEA (OLIVE) FRUIT OIL, CARUM PETROSELINUM (PARSLEY) SEED OIL



## **Study Methods**

### **1. Evaluation Methods for Skin Efficacy**

#### 1) Measurement of lip hydration

Measurement of lip hydration was performed by using a Corneometer, to measure the skin moisture content of the lip area, before and immediately after of application of the test product. The unit of the measured value is A.U.(Arbitrary Unit) and the average value measured three times was used as a skin moisture content evaluation data. The measured value and the degree of skin moisture content are proportional, meaning the more measured value, the better lip hydration improvement.

## Study Results

### 1. Measurement results of skin

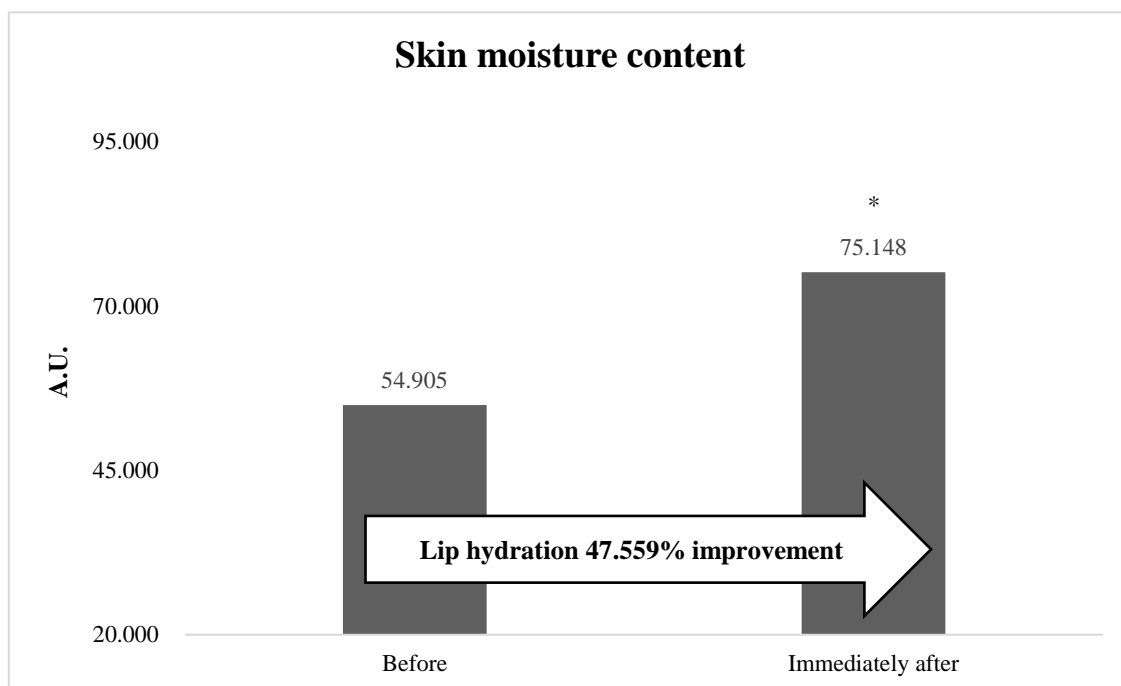
#### 1) Measurement results of lip stratum corneum

Measurement results of lip hydration after application of the test product, the measured value of skin moisture content statistically significantly increased immediately after of application of the product as compared with before the application( $p < 0.05$ ).

<Table 1. Measurement results of lip hydration>

Change of skin moisture content			
Time	Average±STD (A.U.)	Rate of change <sup>a</sup> (%)	Probability <sup>b</sup> (p value)
Before	54.905±17.420	-	-
Immediately after	75.148±12.164	47.559	0.000*

- Rate of change<sup>a</sup> (%) = [(Analysis value after product application – Analysis value before product application) / Analysis value before product application] x 100
- Probability<sup>b</sup> (p value) \*:  $p < 0.05$  by Paired samples T-test



**Appendix 1. Chief Researcher's Curriculum Vitae**

**- Personal Information -**

Name: Sun Young Choi, M.D. PhD. and Dermatologist

Present: Department of Dermatology, Seoul Paik Hospital, Inje University College of Medicine, Seoul, Korea

License number : 103638

**- Education -**

2010                    Graduated College of Medicine, Chung-Ang University, Korea

2010-2011            Internship, Chung-Ang University Hospital, Korea

2011-2015           Resident, Chung-Ang University Hospital, Korea

2013                    Master of Science, Graduate school of Chung-Ang University, Korea

2017                    Doctorate of Philosophy, Dermatology, Chung-Ang University, Korea

**- Professional Career -**

2015.03-2016.02    Fellow, Department of Dermatology, Chung-Ang University Hospital, Seoul, Korea

2016.03-2017.02    Fellow, Department of Dermatology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea

2017.03-2021.03    Assistant professor, Department of Dermatology, Seoul Paik Hospital, Inje University College of Medicine, Seoul, Korea

2021.07-present    Assistant professor, Department of Dermatology, Ilsan Paik Hospital, Inje University College of Medicine, Seoul, Korea

## Appendix 2. Accomplishment of Chief Researcher

### < Lead author >

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< Co-author >

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