

Clinical Report

**Clinical study on improvement of lip stratum corneum
of “KOCOSTAR PEACH DUODUO LIP SCRUB”**

Requester: First market

July 19th, 2021



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Authentication

KC Skin Research Center Co., Ltd. reports the study results of clinical study on improvement of lip stratum corneum of “KOCOSTAR PEACH DUODUO LIP SCRUB” 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 19th, 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
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Researcher	Man Jin Choi
Researcher	Min Jung Cho
Researcher	Ji Eun Heo
Researcher	You Kyung Koh

Summary report

Study Name	Clinical study on improvement of lip stratum corneum of “KOCOSTAR PEACH DUODUO LIP SCRUB”
Study Identification Number	KC-210317-C3
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	March 17 th , 2021 ~ March 18 th , 2021
Original Report Due	March 31 st , 2021
Original Report Charger	Researcher Min Jung Cho
English Report Due	July 19 th , 2021
English Report translation Charger	Researcher Hyun Hee Chung
Test Product	- KOCOSTAR PEACH DUODUO LIP SCRUB
Study Objective	Evaluation of product efficacy for improvement of lip stratum corneum of “KOCOSTAR PEACH DUODUO LIP SCRUB”
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: 44.550±7.444years.)

<p>Subject Selection</p>	<ol style="list-style-type: none"> 1) Subjects Inclusion criteria <ul style="list-style-type: none"> - Healthy subjects aged 19~60years - Subjects who have voluntarily signed the consent form after understanding study objective and contents - Subjects who can be observed and traced during the study period - Subjects who are not included in the exclusion criteria 2) Subjects Exclusion criteria <ul style="list-style-type: none"> - Subjects who do not wish to apply or who has not written agreements - Subjects who have mental diseases - Subjects who have infectious skin diseases - Subjects who received immunosuppressant treatment within 3 months prior to the start of the study - Subjects who received whole body steroids or light treatment within a month prior to the start of the study - Subjects who have a lesion in the test area which makes difficult to measure - Female subjects who are pregnant or lactating - Subjects who have irritation or allergies on cosmetics, quasi-drugs, or daily sunlight - Subjects who are inappropriate to participate in the study on the judgement of the chief researcher or researcher in charge 3) Subject Withdrawal criteria <ul style="list-style-type: none"> - Subjects who are willing to discontinue the study participation - Subjects who can't proceed with the test due to the occurrence of skin disease during the study - Subjects who have serious adverse reactions after using the test products - Subjects who violate method of use or schedule without special reason
<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 stratum corneum 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"> - Measurement of lip stratum corneum: Visioscan VC98
<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 SCRUB” for once on the lip area,</p> <p>1) Measurement results of lip stratum corneum after application of the test product, the analyzed value of lip stratum corneum statistically significantly decreased immediately after of application of the product as compared with before the application($p<0.05$).</p> <p>Therefore, the test product “KOCOSTAR PEACH DUODUO LIP SCRUB” is considered to be a product that can help with improve lip stratum corneum with once application.</p>
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Study Background

1. Product Information

Product Name	KOCOSTAR PEACH DUODUO LIP SCRUB
Product Identification Number	210317-C3-T1
Product Type	Pink cream with scrubs
Test Area	Lip area
How to use	After washing your lips, apply cream on your lips, roll it in a circle, and wipe it off with a wet tissue.
Period of use	Once
Ingredient	WATER/AQUA, GLYCERIN, CAPRYLIC/CAPRIC TRIGLYCERIDE, POLYSORBATE60, CETYL ALCOHOL, 1,2-HEXANEDIOL, JUGLANS REGIA (WALNUT) SHELL POWDER, PALMITIC ACID, STEARIC ACID, ARGININE, STEARYL ALCOHOL, GLYCERYL STEARATE, CARBOMER, PRUNUS PERSICA (PEACH) FRUIT EXTRACT, BUTYLENE GLYCOL, FRAGRANCE/PARFUM, ETHYLHEXYLGLYCERIN, POLYGLYCERYL-10 DIISOSTEARATE, TOCOPHERYL ACETATE, SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL, VITIS VINIFERA (GRAPE) SEED OIL, CHAMOMILA RECUTITA (MATRICARIA) EXTRACT, HYDROGENATED LECITHIN, CYANOCOBALAMIN, ASTAXANTHIN

Study Methods

1. Evaluation Methods for Skin Efficacy

1) Measurement of lip stratum corneum

Measurement of lip stratum corneum was taken by using Cornefix, a special adhesive tape, before and immediately after of application of the product, and photographed with Visioscan VC98. The Desquamation Index (D.I.) of the photographed picture was analyzed and used as an evaluation data, with the unit of the measured stratum corneum analysis value is %. The analysis value is inversely proportional to the degree of lip stratum corneum improvement, the smaller analysis value represents the lip stratum corneum improvement by the cover.

Study Results

1. Measurement results of skin

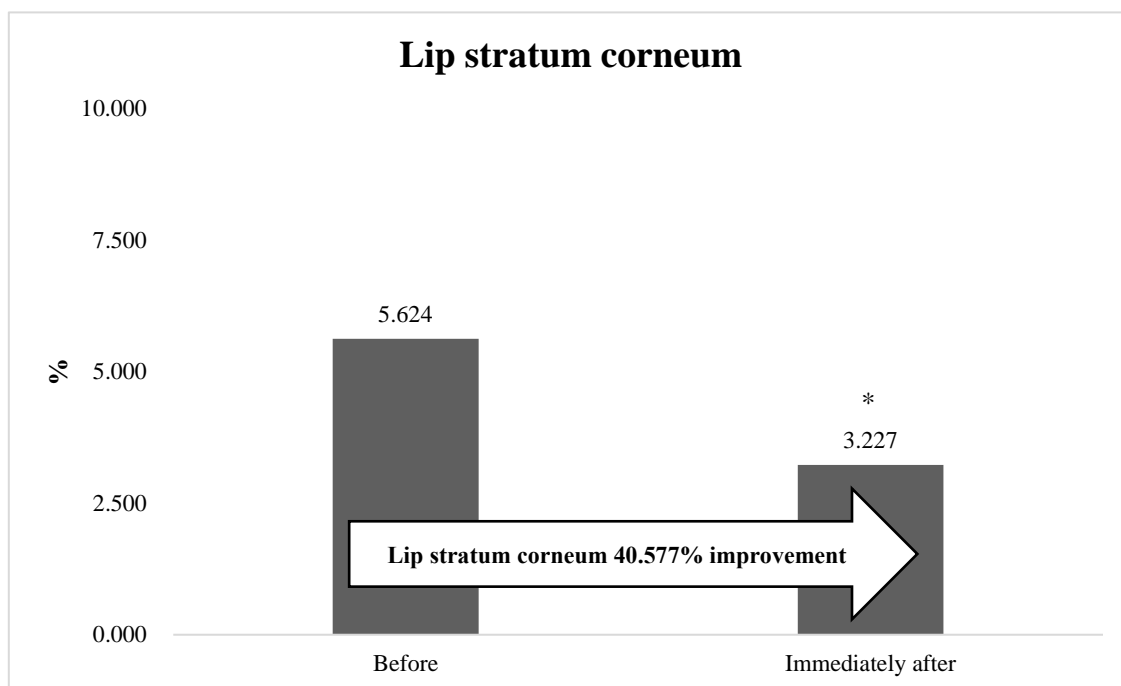
1) Measurement results of lip stratum corneum

Measurement results of lip stratum corneum after application of the test product, the analyzed value of lip stratum corneum statistically significantly decreased immediately after of application of the product as compared with before the application($p < 0.05$).

<Table1. Measurement results of lip stratum corneum>

Change of lip stratum corneum			
Time	Average±STD (A.U.)	Rate of change ^a (%)	Probability ^b (p value)
Before	5.624±1.677	-	-
Immediately after	3.227±1.224	-40.577	0.000*

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



➤ The lower analysis value means the more the lip stratum corneum is improved, so the rate of change expressed in negative values can be seen as a degree of improvement in lip stratum corneum.

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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