



KIDS-BBK058-NSP

Clinical Study Report

A Clinical Study of 'GLUTANEX Mask' on the Improvement of Immediate Epidermal Moisture and Immediate Deep Moisture

Date : December 27, 2022

Requested by : Nexus Pharma Co., Ltd. (Korea)

Performed by : Korea Institute of Dermatological Sciences (Korea)



Korea Institute of
Dermatological Sciences

CERTIFICATE FOR RELIABILITY ASSURANCE



Title of the clinical study : A clinical study of 'GLUTANEX Mask' on the improvement of immediate epidermal moisture and immediate deep moisture

Case control No. : KIDS-BBK058-NSP

This study was conducted according to the regulations of designation as the test institution for drugs, quasi-drugs, cosmetics, and medical devices; the guidelines of the management standards for clinical drug evaluations; the guidelines of *in vivo* clinical and *in vitro* evaluation studies; the guidelines of the experimental methods for cosmetic display and advertisements; and the guidelines of the validation of functional cosmetics of the Ministry of Food and Drug Safety, Republic of Korea; the laws of the bioethics and safety of the Ministry of Health and Welfare, Republic of Korea; and the standard operation procedure of the Korea Institute of Dermatological Sciences. All procedures were investigated by the person in charge of reliability assurance.

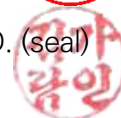
Title of the clinical study	A clinical study of 'GLUTANEX Mask' on the improvement of immediate epidermal moisture and immediate deep moisture				
Date	Step	RA inspection categories	RA inspection result	Approval date	Note
December 05, 2022	Study plan	Reporting plan	Approved	December 05, 2022	
December 13, 2022	Performing clinical trial	Reporting implementation	Approved	December 13, 2022	
December 14, 2022~ December 20, 2022	Analyzing data, Confirming the information on test product	Inspecting raw data	Approved	December 20, 2022	
December 21, 2022~ December 26, 2022	Report work	Inspecting draft report	Approved	December 26, 2022	
December 27, 2022	Report final report	Inspecting final report	Approved	December 27, 2022	

This report was prepared on the basis of the experiment results and accurately reflects the data.

December 27, 2022

Scientific Director In Sook An, Ph. D. (seal)

Reliability Assurance Ka Ram Kim, Ph. D. (seal)



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SUMMARY OF THE CLINICAL STUDY



Title of the clinical study	A clinical study of 'GLUTANEX Mask' on the improvement of immediate epidermal moisture and immediate deep moisture	
Clinical trial institution	Korea Institute of Dermatological Sciences 6th Floor, Tower A, 25, Beobwon-ro 11-gil, Songpa-gu, Seoul, 05836, Republic of Korea	
Sponsor	Nexus Pharma Co., Ltd.	
Chief researcher	In Sook An, Ph.D.	
Researcher	Seungbin Kwon, lil Hong, Yun Kim, Minji Jo, Sujeong Shin, Heemin Kwon, Jiyeon Kang, Sugyeong Hong, Hyunkyung Kim, Soyeon Park	
Name of the test material	GLUTANEX Mask	
Trial period	December 5, 2022 (Study initiation) ~ December 27, 2022 (Study termination) For the study initiation, the person in charge of the study signed the clinical study proposal; for the study termination, the person in charge of the study signed the final report.	
Trial period (Measurement period)	December 13, 2022 (First date of visit and end date of measurement)	
Inclusion criteria	Female volunteers from twenty to sixty five years old with who met the inclusion criteria and were not included in the exclusion criteria were selected for this study.	
The age and number of subjects who completed the final study	Twenty three subjects from twenty eight to sixty (Average 47.35, Standard deviation 8.69) of female	
Methods	Usage of test product	Each subject applied the test material 'GLUTANEX Mask' evenly on the facial area for 15 minutes and allowed it to be fully absorbed after cleansing.
Methods	Evaluations	The evaluations were conducted by Standard Operating Procedures of KIDS and all of the procedures were investigated by the person in charge of reliability assurance. 1. Measurements 1) Evaluation using Epsilon E100 to assess the immediate epidermal moisture improvement

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Methods	Evaluations	2) Evaluation using MoistureMeterD Compact to assess the immediate deep moisture improvement 2. Evaluation of abnormal skin response 3. Survey
Results		1. The evaluation results of immediate epidermal moisture using Epsilon E100 The skin moisture was increased 226.44% after one-time use of the test material application in comparison with the pre-application ($p < .001$). 2. The evaluation results of immediate deep moisture using MoistureMeterD Compact The skin moisture was increased 22.66% after one-time use of the test material application in comparison with the pre-application ($p < .001$). 3. Subjects' abnormal skin responses were not detected during the trial period.
Conclusion		In the study requested by Nexus Pharma Co., Ltd., 'GLUTANEX Mask' was found to be helpful with improving immediate epidermal moisture and immediate deep moisture. In addition, the test material was found to be effective on moisture layering effect (improvement of two types of moisture) by improving immediate epidermal moisture and immediate deep moisture.

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