



KIDS-BCC014-NSP

Clinical Study Report

A Clinical Study of 'GLUTANEX Glow Therapy Pore Pad' on the Mitigation of Freckles and Pigmentation

Date : April 19, 2023

Requested by : Nexus Pharma Co., Ltd.
Performed by : Korea Institute of Dermatological Sciences (Korea)

CERTIFICATE FOR RELIABILITY ASSURANCE



Title of the clinical study : A clinical study of 'GLUTANEX Glow Therapy Pore Pad' on the mitigation of freckles and pigmentation

Case control No. : KIDS-BCC014-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 Glow Therapy Pore Pad' on the mitigation of freckles and pigmentation				
Date	Step	RA inspection categories	RA inspection result	Approval date	Note
March 21, 2023	Study plan	Reporting plan	Approved	March 21, 2023	
March 29, 2023 ~ April 12, 2023	Performing clinical trial (Measurement progress)	Reporting implementation	Approved	April 12, 2023	
April 13, 2023 ~ April 14, 2023	Analyzing data, Confirming the information on test product	Inspecting raw data	Approved	April 14, 2023	
April 17, 2023 ~ April 18, 2023	Report work	Inspecting draft report	Approved	April 18, 2023	
April 19, 2023	Report final report	Inspecting final report	Approved	April 19, 2023	

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

April 19, 2023

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 Glow Therapy Pore Pad' on the mitigation of freckles and pigmentation	
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, Il Hong, Yun Kim, Minji Jo, Sugyeong Hong, Hyunkyung Kim, Soyeon Park	
Name of the test material	GLUTANEX Glow Therapy Pore Pad	
Trial period	March 21, 2023 (Study initiation) ~ April 19, 2023 (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)	March 29, 2023 (First date of visit) ~ April 12, 2023 (End date of visit)	
Inclusion criteria	Female volunteers from thirty to sixty five years old 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 one subjects from thirty six to sixty three (Average 52.10, Standard deviation 7.60) of female	
Methods	Usage of test material	Each subject applied the same amount of test material 'GLUTANEX Glow Therapy Pore Pad' evenly on the facial area and allowed it to be fully absorbed after cleansing twice a day, in the morning and the evening, during the two weeks test period.
	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 ANTERA 3D to assess the mitigation of freckles and pigmentation 2. Evaluation of abnormal skin response 3. Survey

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Results	1. The evaluation results of mitigation of freckles and pigmentation using ANTERA 3D The melanin value indicating freckles and pigmentation was decreased 1.17% after two weeks of the test material application in comparison with the pre-application ($p < .05$). 2. Subjects' abnormal skin responses were not detected during the trial period.
Conclusion	In the study requested by Nexus Pharma Co., Ltd., 'GLUTANEX Glow Therapy Pore Pad' was found to be helpful with relieving freckles and pigmentation.

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