KIDS-FSCR06-505

Clinical Study Summary Report

A Preliminary Study for Determining the Sun Protection Factor of “K LUMA UV Protection Brightening Skin Perfecting Cream”

Requestor: HEALKINBIO CO.

July 08, 2026

Korea Institute of Dermatological Sciences

Preliminary Study Report Summary

Test Title	A Preliminary Study for Determining the Sun Protection Factor of “K LUMA UV Protection Brightening Skin Perfecting Cream”
Research Organization	Korea Institute of Dermatological Sciences 6F, H Business Park Building A, 25 Beobwonro 11-gil, Songpa-gu, Seoul, Republic of Korea
Requestor	HEALKINBIO CO.
Test Product	K LUMA UV Protection Brightening Skin Perfecting Cream
Formulation	Cream
Test Period	June 15, 2026~ July 08, 2026
Methods	This test is conducted in accordance with the Cosmetics-Sun protection test methods-In vivo determination of the sun protection factor (SPF) (ISO 24444:2019/Amd.1:2022), Japan Cosmetic Industry Association (JCIA) and the Standard Operating Procedure (SOP) of Korea Institute of Dermatological Sciences. 1) Selection of subjects: Three healthy female and male, aged from 18 to 60 years old 2) Product Application: Evenly apply 2.00 ± 0.05 mg/cm^2 amount to the test area. 3) Application areas: 35 cm^2 (7 cm x 5cm) 4) Waiting time after product application: 15-30 minutes 5) Test device: Multi-port Solar Simulator 601-300W 6) Assessment Methods: Evaluate the response of minimal erythemal dose (MED) within 16-24 hours after UV irradiation
Results	As a result of the preliminary test on three subjects, the Sun Protection Factor (SPF) of "K LUMA UV Protection Brightening Skin Perfecting Cream" was **55.0 ± 4.3**. The skin adverse reaction was not observed during the entire test processes.
Principal Investigator	In Sook An, Ph.D.
Researcher	Sae Hee Yoon, Hee Jin Kim, Yu Jin Kim, Seo Young Lee, Mi Hye Gong, Eun Jung Lee
Dermatologist	Won Ung Shin, Kyung Goo Lee
Quality Assurance Director	Ga Ram Kim, Ph.D.
Report Date	July 08, 2026

Test results

Because the requestor **"HEALKINBIO CO."** notified **[SPF 50+]** of expected SPF to Korea Institute of Dermatological Sciences, the test was conducted assuming that the expected SPF of the test product was **[SPF 50]** in accordance with the Cosmetics-Sun protection test methods-In vivo determination of the sun protection factor (SPF) (ISO 24444:2019/Amd.1:2022), Japan Cosmetic Industry Association (JCIA) and the Standard Operating Procedures (SOP) of Korea Institute of Dermatological Sciences.

- Test Product: K LUMA UV Protection Brightening Skin Perfecting Cream
- Product code: KIDS-FSCR06-505
- Formulation: Cream
- Color: White
- Results: **SPF 55.0 ± 4.3**

No	Subject ID	Age	Gender	ITA°	MEDu2 (J/m^2)	Reference sunscreen	MEDs (J/m^2)	SPFs	MEDp (J/m^2)	SPFp
1	KIDS-FS0622-579	26	F	58	218	P8	11992	55.0	12555	57.5
2	KIDS-FS0622-469	22	F	47	296	P8	16282	55.0	14841	50.1
3	KIDS-FS0629-384	58	F	38	318	P2	5886	18.5	18295	57.5
Mean		35.3	-	47.7	277	-	-	-	15230	55.0
SD		19.7	-	10.0	53	-	-	-	2890	4.3