

Sun Protection Factor (SPF) pre-test result

November 11, 2022

Ellead Co., Ltd.



Summary of Clinical Study

Study title	A Clinical Study for Determining the Sun Protection Factor of 'Abib Sedum hyaluron sunscreen Protection tube'
Study number	EL-220913408CF
Requesting institution	Kolmar Korea 61, Heolleung-ro-8-gil, Seocho-gu, Seoul, 06800, Korea
Research institution	Ellead Co., Ltd. 7&8 fl., 325, Hwangsaеul-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea
Duration of study	October 31, 2022 ~ November 11, 2022
Name of test product (Product management number)	Abib Sedum hyaluron sunscreen Protection tube (M-220913408CF)
Formulation	Lotion
Test method	<p>In accordance with Cosmetics Europe (ISO 24444:2019 / ISO 24444:2019/AMD 1:2022) and Ellead Standard Operating Procedures (EL-P-7400).</p> <ol style="list-style-type: none"> 1. Test volunteers: Generally healthy male and female volunteers aged 20 - 69 without skin disease 2. Test area: Back between scapula line and the waist 3. Reference sunscreen: P2 4. Method of application: The researcher marked off rectangular application area of 35 cm² (7 cm × 5 cm) and applied the test product (2.00 mg/cm²) on the test area as 15 small drops or more. Then, the researcher spread the test product gently in circular and linear movements (up and down) using a finger cot. 5. Drying time: 15 to 30 minutes 6. Time of assessment: 16 to 24 hours after UV irradiation
Result of pre-test	Attachment
Researcher	In Hyung Jung, M.S. / Seo Yun Kim, B.S. / Da Hye Kim, B.S. / Seong Chul Yoon, B.S. / Hyo Jin Lee, B.S. / Ho Yeon Jeon, B.S
Sample allocator	Ga Eun Yoon

Attachment

1. Test product: Abib Sedum hyaluron sunscreen Protection tube
2. Expected SPF: SPF50
3. Result of pre-test: SPF 60.4 \pm 5.0

Volunteer number	Age	Sex	ITA° group [†]	MED _u (J/m ²)	Reference sunscreen SPF value	Test product MED _p (J/m ²)	Test product SPF value
1	27	M	3 (57.4)	196	18.4 (P2)	12943	66.1
2	26	M	3 (57.1)	172	18.4 (P2)	9869	57.5
3	56	M	3 (56.2)	202	18.4 (P2)	11616	57.5
Mean				190	18.4	11476	60.4
S.D.				16	0.0	1542	5.0

† 1) 28° ≤ ITA° < 41° 2) 41° ≤ ITA° < 56° 3) 56° ≤ ITA°