

Applicant: MID OCEAN BRANDS B.V.
Wellensiekstraat 2, Postbus 644, 6710 BP Ede, The Netherlands.

Date: Jun .22,2020

Sample Description:

Item Number : VITRO20200023
Item Name : Sun Screen Lotion/ MO6115,MO8512
Sampling Date : 2020/06/21

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Test Result:

According to the test result, the SPF value of sample is "43".

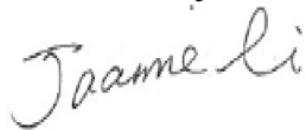
To be continued

Prepared And Checked By:
For Intertek Testing Services Ltd., Shanghai



Miranda Zheng
Manager

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Joanne Li
General Manager



Test Item

In vitro determination of the sun protection factor (SPF) Test method

ISO 24443:2012

According to the requirements of "ISO 24443:2012", with the dosage of 1.3 mg/cm², using special syringe to suck up a certain volume of test sample or standard sunscreen, pointing uniformly on the surface of PMMA, applying product with medical latex fingerstall so that it can be separated evenly on the surface of PMMA. The whole board is placed at room temperature of 23-26°C and under relative humidity of 40%~60%, protected from light for 30min. Then UV 2000S instrument is used to measure the transmittance of ultraviolet light, and each sample is repeated for 4 test plates, each plate is tested for 5 points, the SPF values of the standard sunscreen and the sample are recorded, respectively.

Material

- 1、 Testing sample: 84927(2019-F6 flawless CC)
- 2、 Standard control: P2 Reference Sunscreen
- 3、 PMMA plate: methyl methacrylate plate
- 4、 Instrument: UV 2000S UV transmittance analyzer (Labsphere Co., Ltd.).

Test result(s)**1、 The SPF values of P2 Reference Sunscreen and sample**

N°	Sample	P2 Reference Sunscreen (SPF16.1)
1	44.78	15.46
2	42.51	13.95
3	42.31	15.11
4	43.56	14.70
Average	43.29±1.13	14.81± 0.65

Date Sample Received: Jun.10,2020

Testing Period: Jun.21,2020

To be continued

Appendix file

The sample picture

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End of report

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TEST REPORT

Applicant: MID OCEAN BRANDS B.V.
Wellensiekstraat 2, 6718 XZ Ede, The Netherlands

Sample Description:

Item Number : PBSPF201907
Item Name : Sunscreen lotion/MO8512, MO6115
Specification : 30ml, 45ml
Manufacture date : /
Limited by date : /

Test Conducted:

As requested by the applicant, for details refer to attached page(s).

Test method

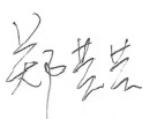
ISO 24444(2010)

Test conclusion:

According to the test result, the SPF value of the test sample is "27".

To be continued

审核:



郑芸芸
经理
上海天祥质量技术服务有限公司

批准:



李琼
副总经理
上海天祥质量技术服务有限公司



Test Item

Sunscreen cosmetics sun protection factor (SPF) test

Test method

ISO 24444(2010): Cosmetics — Sun protection test methods — In vivo determination of the sun protection factor (SPF)

1. SPF value test

- a. 24 hours before the test, test the minimal erythema dose (MED) of the subjects' back under UV irradiation. Adjust the amount of UV irradiation for the sample test according to the predicted results.
- b. Select 3 normal areas (30cm^2 - 60cm^2) in the subjects' back. Evenly swearing the test sample and the standard reference material in the areas with the dosage of $2.00 \pm 0.05\text{mg/cm}^2$.
- c. Carry out UV radiation of three areas: blank control area, standard control area and test sample area. After 20 ± 4 hours, record the MED value of three areas.
- d. The SPF calculation formula is as follows:

$$SPF = \frac{\text{MED (Protected skin)}}{\text{MED (Unprotected skin)}}$$

Calculated the mean of all subjects' SPF value and take its integral part as the SPF value.

Material and subject

1. Testing sample: Cosmetic final product
2. Reference sunscreen formulation:
P2 (SPF 16.1 ± 1.2), formulated according to ISO 24444(2010) standard formula;
3. Subjects:
SPF value test: 10 in total (3males, 7 females), aged from 18 to 60, meet the voluntary inclusion criteria.
4. Light source:
Solar Simulator, all kinds of performance indexes meet the requirements of measurement specification.

To be continued

Test result(s)

Number of subjects	Name	Sex	Age	Skin phototypes	The SPF value of control sample	The SPF value of testing sample
1	WLJ	Female	57	III	16.1	31.7
2	XXL	Female	55	II	20.1	31.7
3	WAQ	Female	45	III	16.1	25.4
4	WYL	Male	43	III	16.1	31.7
5	WB	Male	37	II	16.1	24.0
6	TH	Female	38	II	20.1	30.0
7	GHY	Female	48	II	20.1	24.0
8	WHQ	Female	38	III	16.1	27.6
9	GK	Male	54	III	16.1	27.6
10	SZQ	Female	47	III	16.1	24.0
Average					17.3	27.8
Standard deviation					1.9	3.3
95%CI					15.3~19.2	24.3~31.1
17% of the mean					14.3~20.2	23.0~32.5

Date Sample Received: Mar.27,2019
 Testing Period: Apr.11,2019 To Apr.26,2019
 Report Date : Apr.26,2019

To be continued

Appendix: The sample picture



End of report

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