Test Report

Applicant:

Name	:	Mid Ocean Brands B.V.
Address	:	7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

Sample Description:

Sample No.	:	HBPF240029
Sample Name	:	Lip balm
Batch No./Production Date	:	/
Specification	:	IT2698, MO6752, MO6753, MO9373, MO9374, MO9407, MO9586, MO2213, MO2214, MO2215
Sample Quantity	:	30g*4
Predictive PFA Value	:	/

Reference:

ISO 24443:2021 Cosmetic-Determination of sunscreen UVA photoprotection in vitro

Test Result:

According to the test result, the PFA value of sample is "7", "PA++".

To be continued

Authorized By:

For Intertek Testing Services Ltd., Shanghai

Shirley Zhou

Shirley Zhou
Lab Manager

This report replaces CRS-2024-162-45-02S1 Report Date: Feb.27,2024
This report modified the Sample Description.

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Test Item

In vitro determination of sunscreen UVA protection

Reference

ISO 24443:2021 Cosmetic-Determination of sunscreen UVA photoprotection in vitro

According to the requirements of *ISO 24443:2021 Cosmetic-Determination of sunscreen UVA photoprotection in vitro*, with the dosage of 1.3 mg/cm^2, 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 naked finger so that it can be separated evenly on the surface of PMMA. The whole board is protected from light and dry for at least 30min and no more than 60 min. 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, C values and irradiation dose of the standard sunscreen and the sample are recorded, respectively. After the test, putting the PMMA plate, which is applied with sample, to SOL-UV-6 solar simulator (keep samples within the range of 25 °C to 35 °C) to expose, and stop irradiation when the irradiation dose reaches the dose recorded above and recorded the irradiation time and the corresponding values of irradiance meter, and then using the UV 2000S instrument to measure the transmittance of ultraviolet light, each sample is repeated for 4 test plates, each plate is tested for 5 points, and the PFA values of the standard sunscreen and the sample are recorded, respectively.

Material

1、 Testing sample: Lip balm

2、 In vitro SPF value: 15 (Customer didn't provide SPF value in vivo and SPF value in vitro is used to calculate PFA value instead of SPF value in vivo)

3、 Standard control: S2 Reference Sunscreen (COSMETECH LABORATORIES, INC. 3102Q)

4、 PMMA plate: HD6TM moulded PMMA plates (HelioScreen, Creil, France)

5、 Instrument: UV 2000S UV transmittance analyzer (Labsphere Co., Ltd.), SOL-UV-6 solar simulator (Newport)

Test Result(s)

The PFA values of S2 Reference Sunscreen and sample

No.	Sample	S2 Reference Sunscreen (PFA12.7±2.0)
1	8.6	13.1
2	7.0	13.2
3	8.4	12.9
4	7.2	11.3
Average ± SD	7.8± 0.8	12.6±0.9
CI%	16.7%	11.2%

Note: M refers to HD6TM moulded PMMA, S refers to sand-blasted SB6TM PMMA.

Date Sample Received: Feb.4,2024
Testing Time: Feb.19,2024

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End of report

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Applicant:

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Address	:	7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

Sample Description:

Sample No.	:	HBPF240029
Sample Name	:	Lip balm
Batch No./Production Date	:	/
Specification	:	IT2698, MO6752, MO6753, MO9373, MO9374, MO9407, MO9586, MO2213, MO2214, MO2215
Sample Quantity	:	30g*4
Predictive SPF Value	:	15

Test Item:

In vitro determination of the sun protection factor (SPF)

Reference:

Colipa -Cosmetics Europe - No 26 Use of Alternative Methods to ISO24444-2019: No_26_Double_Plate_Method_ Protocol.

Test Result:

According to the test result, the SPF value of the sample is "15".

To be continued

Authorized By:

For Intertek Testing Services Ltd., Shanghai

Shirley Zhou

Shirley Zhou
Lab Manager

This report replaces CRS-2024-162-46-01S1 Report Date: Feb.27,2024
This report modified the Sample Description.

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Test Item

In vitro determination of the sun protection factor (SPF)

Reference

Colipa -Cosmetics Europe - No 26 Use of Alternative Methods to ISO24444-2019: No_26_Double_Plate_ Method_ Protocol

Test Procedure

1. Preparation of reagents and materials: Store the plates (opened or removed plastic bag) and product, in the dark, at 27(±2) ℃ for at least twelve hours before the start of the test.
2. Apply the product with finger. 1.3mg/cm^2(±1.6%) of product is applied to each moulded plate and 1.2mg/cm^2(±1.5%) of product is applied to each sandblasted plate. (Reference: ISO 24443:2021)
3. Measurement of initial absorbance using two plate types (290 nm to 400 nm).
4. Calculation of initial in vitro SPF.
5. Calculation of irradiation dose (based on initial in vitro SPF).
6. Irradiation with calculated dose.
7. Measurement of final post-irradiation absorbance using two plate types (290 nm to 400 nm).
8. Calculation of final in vitro SPF.

Material

1. Testing sample: Lip balm
2. Standard control: P8 Reference Sunscreen
3. PMMA plate: HD6TM moulded PMMA plates (HelioScreen, Creil, France),
   sand-blasted SB6TM PMMA plates (HelioScreen, Creil, France)
4. Instrument: UV 2000S UV transmittance analyzer (Labsphere Co., Ltd.), SOL-UV-6 solar simulator (Newport)

Test Result(s)

Final in vitro SPF value			
PMMA No.	M	S	M+S
1	14.5	14.5	15.5
2	14.5	13.9	15.0
3	14.2	13.6	14.6
MEAN	14.4	14.0	15.0
SD	0.2	0.5	0.5
CI	/	/	7.5%

Note: M refers to HD6TM moulded PMMA, S refers to sand-blasted SB6TM PMMA.

Date Sample Received: Feb.4,2024
Testing Time: Feb.19,2024

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End of report

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