

Test Report

Sender:

Name :

Address :

Applicant:

Name : MID OCEAN BRANDS I .V.

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

Sample Description:

Sample No. : HBPF230163

Sample Name : Vegan Lip Balm

Model No. : MO6809.MO6943.MO2525

Sample Quantity : 3

Reference:

NF EN ISO 24443:2012-08 Determination of sunscreen UVA photoprotection in vitro

Test Result:

According to the test result, the PFA value of sample is "4", "PA++".

To be continued

Authorized By:

For Intertek Testing Services Ltd., Shanghai

Carr Cai

Carr Cai

Lab Manager



This report replaces CRS-2023-162-31-02-2 Report Date: Jun.13, 2023
This report updates the Model No.

Test Item

In vitro determination of sunscreen UVA protection

Reference

NF EN ISO 24443:2012-08 Determination of sunscreen UVA photoprotection in vitro

According to the requirements of *NF EN ISO 24443:2012-08 Determination of sunscreen UVA photoprotection in vitro*, 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 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: Vegan Lip Balm
- 2、 In vitro SPF value: 20(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)
1	3.99	12.07
2	4.08	13.09
3	4.15	13.56
4	4.13	11.97
Average ± SD	4.09± 0.07	12.67± 0.78
CI%	2.78%	9.78%

Date Sample Received: May.26,2023

Testing Time: Jun.13,2023

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band w = U) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either

Page 2 of 3

express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Shanghai Ltd.

*Remark:*The testing data and result issued by this report are just for scientific research, teaching, internal quality control, product research and development etc. on reference only in the territory of the People's Republic of China.*



Test Report

Sender:

Name :

Address :

Applicant:

Name : MID OCEAN BRANDS B.V.

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

Sample Description:

Sample No. : HBPF230163

Sample Name : Vegan Lip Balm

Model No. : MO6809.MO6943.MO2525

Sample Quantity : 3

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 "20".

To be continued

Authorized By:

For Intertek Testing Services Ltd., Shanghai

Carr Cai

Carr Cai

Lab Manager



This report replaces CRS-2023-162-31-02-1 Report Date: Jun.6, 2023
This report updates the Model No.

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) °C for at least twelve hours before the start of the test.
2. Apply the product with finger. 1.3mg/cm²(±1.6%) of product is applied to each moulded plate and 1.2mg/cm²(±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: Vegan 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	16.3	20.0	20.4
2	15.6	21.0	21.0
3	15.8	20.9	21.0
MEAN	15.9	20.6	20.8
SD	0.4	0.6	0.3
CI	/	/	4.2%

Note: M refers to HD6TM moulded PMMA(Batch No.:0466) and S refers to sand-blasted SB6TM PMMA(Batch No.:401).

Date Sample Received: May.26,2023

Testing Time: Jun.06,2023

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. It is not intended to be a recommendation for any particular course of action. Intertek

Page 2 of 3

does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Shanghai Ltd.

*Remark:*The testing data and result issued by this report are just for scientific research, teaching, internal quality control, product research and development etc. on reference only in the territory of the People's Republic of China.*

