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# TEST REPORT

REPORT NO. : 66253590398  
DATE : 2 Feb, 2026  
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Customer Name: Mid Ocean Brands B.V.

Customer Address: Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

|            |  |                    |                     |
|------------|--|--------------------|---------------------|
| Sample:    | Vegan lip balm                                     | Manufacturer name: | Vendor code: 113285 |
| Size:      | MO2525,<br>MO6809,<br>MO6943,<br>MO2905,<br>MO2915 | Expiration Date :  | /                   |
| Quantity:  | /  | Manufacture Date:  | /                   |
| Trademark: | /  | Batch No.:         | /                   |

Above sample information was provided and confirmed by customers, BV is not responsible for its accuracy or completeness.

Sample Description: White color Solid, intact packaging

Sample Reception Date: 2025-12-25

Testing Date: 2026-01-27~2026-01-30

Testing Type: Test only

Sample Source: Customer submits samples

Item Tested: Skin Irritation

Test Method: In vitro skin irritation: Reconstructed Human Epidermis Test Method OECD TG 439 (2021) (see note \*1)

Test Requirements: Testing according to customer requirements

Test Basis: In vitro skin irritation: Reconstructed Human Epidermis Test Method OECD TG 439 (2021)

Test Conclusion: Not irritating to skin, GHS classified as No Category.

Test Results#: Please refer to the following page

#### REMARK:

Any questions, pls contact the following person:

\*1: The original of this method comes from OECD TG 439 (2021): In vitro skin irritation: Reconstructed Human Epidermis Test Method.

#: The results were completed in subcontracting laboratories.

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## Test Results

### Appendix:

#### 1. Test sample information:

|                            |                |                     |  |
|----------------------------|----------------|---------------------|--|
| Name of Sample:            | Vegan lip balm | L/N:                | MO2525,<br>MO6809,<br>MO6943,<br>MO2905,<br>MO2915 |
| Chemical Name:             | /              | Physical state:     | Solid  |
| CAS number:                | /              | Colour:             | White  |
| INCI name:                 | /              | Purity:             | /  |
| Product name:              | /              | Storage conditions: | Room temperature                                   |
| Relative molecular weight: | /              | Stability:          | /  |
| Molecular formula:         | /              | Production date:    | /  |
| Manufacturer:              | /              | Valid period:       | /  |
| Manufacturer Address:      | /              |                     |  |

Note: "/" means this item is not applicable.

1.1 Test sample (TA): Original sample testing.

#### 2. Control group information

##### 2.1 Positive control (PC): 5% SDS

Weigh 0.2106 g SDS and add 4.212 mL ultrapure water to dissolve to obtain 5% SDS.

|                            |  |
|----------------------------|--|
| Chemical name:             | Sodium Dodecyl Sulfate                             |
| CAS number:                | 151-21-3   |
| Physical state:            | White powder                                       |
| Purity:                    | ≥98%   |
| Lot number:                | WXBD6396V  |
| Relative molecular weight: | 288.38   |
| Molecular formula:         | C <sub>12</sub> H <sub>25</sub> SO <sub>4</sub> Na |
| Manufacturer:              | VETEC™   |
| Validity period:           | 28 <sup>th</sup> September, 2026                   |

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2.2 Negative control (NC): DPBS solution

Chemical name: /  
CAS number: /  
Physical state: Liquid  
Purity: /  
Lot number: GP24090311458  
Relative molecular weight: /  
Molecular formula: /  
Manufacturer: Servicebio  
Validity period: September, 2026  
Note: "/" means this item is not applicable.

**3. Test acceptance criteria:**

3.1 Negative control: The negative control reflects the tissue activity under experimental conditions. If the absolute OD value of the negative control is lower than the lower limit of the historical confidence interval, it indicates that the tissue activity is abnormal, and its sensitivity to chemical subjects may be different, so the tissue can no longer be used in experiments. If the average OD value of the three tissues is between 0.8 and 3.0, and the tissue activity deviation SD  $\leq 8\%$ , the negative control is considered acceptable.

3.2 Positive control: The positive control (5%SDS) reflects the sensitive activity of tissues under experimental conditions. If compared with the negative control, the average relative activity is  $<40\%$  and the deviation SD is  $\leq 18\%$ , the positive control is considered acceptable.

3.3 Test substance results: If both the negative and positive controls fully meet the above requirements, and the tissue activity deviation SD is  $\leq 8\%$ , then the test substance results from the same batch of tests are considered acceptable.

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#### 4. Test materials:

4.1 Test kit: SkinEthic In Vitro Artificial Skin Model Test Kit (RHE), batch number: 26ChrRHE-02

4.2 Inspection equipment: Multifunctional detection microplate reader (CALT/2019E014), the detection wavelength used is 570 nm, and the detection range is 0-4.0 OD.

Method description: In the end-point determination, the amount of formazan produced by the reaction between the model and MTT is measured, and the activity of the model is calculated. The OD value of the formazan solution extracted with isopropanol was measured at 570 nm of the microplate reader, and the relative activity of the model was calculated with isopropanol as a blank control.

4.3 Culture conditions: 37°C, 5% CO<sub>2</sub>, relative humidity 95%

4.4 Culture medium: Skin Model Maintenance Medium (Lot: 25-SMM-0122) and Growth Medium (Lot: 25-SGM-0122)

4.5 MTT solution: The MTT was dissolved in DPBS buffer to prepare a stock solution with a concentration of 5 mg/mL. Before use, it was diluted with the detection culture solution, so that the final concentration was 1 mg/mL (MTT stock solution, Lot: 20260121)

4.6 Isopropanol: used for extraction of starch (Lot: 20241014).

#### 5. Test procedure:

5.1 Preparation of skin model: Add the pre-heated growth culture solution to 1 mL/well of 6-well culture plate, transfer the skin model to contain the growth culture solution, and put it in an incubator for cultivation overnight.

5.2 Reaction between the sample to be tested and MTT: Add 300  $\mu$ L 1 mg/mL MTT solution and 16  $\mu$ L of the sample to be tested to a 24-well plate, mix well, and incubate in an incubator for 3 hours.

5.3 Colour reaction of the sample to be tested: Add 16 $\pm$ 2  $\mu$ L of sample and mix with 90  $\mu$ L of water and leave it at room temperature for 15 min, observe whether the sample reacts in colour.

5.4 Sample addition: Transfer the model to a 24-well plate containing 300  $\mu$ L/well of culture medium. The NC group was added with 16  $\mu$ L of DPBS, the PC group was added with 16  $\mu$ L of 5% SDS, and the TA group was added with 16  $\mu$ L of the test sample was added. Evenly spread the surface of the skin model, after 42 min at room temperature, rinse the sample thoroughly with DPBS until there is no residue, and then place it in a well containing fresh growth medium to 2 mL/well of 6-well culture plate for 42 h incubation. Set up 3 parallels per group.

5.5 Put the skin model in a well containing 300  $\mu$ L 1 mg/mL MTT solution and put it in an incubator for 3 hours. After MTT reaction, A new 24-well plate was added with 750  $\mu$ L of isopropanol, transfer skin model into a 24-well plate containing isopropanol (Add 750  $\mu$ L isopropanol on top). And place it overnight at room temperature in the dark. Take 200  $\mu$ L solution from each tube in a 96-well plate, and read the OD value at 570nm. Isopropanol was used as blank control.

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## 6. Analysis:

6.1 Isopropanol was set as blank control; the viability of NC was set as 100%. And calculated the tissue viability of TA and PC.

$$\text{Tissue viability}(\%) = \frac{\text{OD}_{\text{TA/PC}} - \text{OD}_{\text{Blank}}}{\text{OD}_{\text{NC}} - \text{OD}_{\text{Blank}}} \times 100$$

6.2 According to Table 1 for skin irritation determination and GHS classification:

Table 1. Prediction model based on skin irritation judgment and GHS classification

| Mean tissue viability(%) | Skin irritation    | UN GHS classification |
|--------------------------|--------------------|-----------------------|
| >50                      | No Skin irritation | No Category           |
| ≤50                      | Skin irritation    | Category 1/2          |

## 7. Results:

7.1 Reaction between the sample to be tested and MTT: The test sample has no reaction with MTT.

7.2 Colour response of the sample to be measured: No significant color interference with the sample to be measured

7.3 Analysis of test results

Table 2. Test results (Mean±SD)

| Group | Average OD value | Mean tissue viability (%) | Skin irritation    | UN GHS classification |
|-------|------------------|---------------------------|--------------------|-----------------------|
| NC    | 2.3890±0.0720    | 100.00±3.01               | No Skin irritation | No Category           |
| PC    | 0.0287±0.0075    | 1.20±0.31                 | Skin irritation    | Category 1/2          |
| TA    | 2.0532±0.0693    | 85.94±2.90                | No Skin irritation | No Category           |

Note: NC: negative control; PC: positive control; TA: test sample.

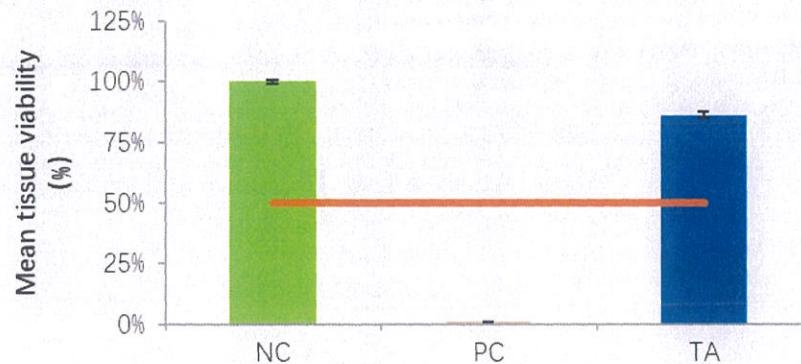


Figure 1. Test Results



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### **8. Conclusion:**

According to OECD TG 439 (2021) "In Vitro Skin Irritation: Test Method for Reconstructed Human Epidermis", under the conditions of this test, the sample "Vegan lip balm" sent in this batch has no skin irritation, and the GHS classification is No Category.

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