



TEST REPORT

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DATE : 1 Dec, 2025
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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 Gloss	Manufacturer name:	Vendor code:113285
Size:	MO2870	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 Solid, intact packaging

Sample Reception Date: 2025-10-17

Testing Date: 2025-11-11~2025-11-14

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:

*: The results were completed in subcontracting laboratories.

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Test Results

Appendix:

1. Test sample information:

Name of sample:	Vegan Lip Gloss	L/N:	/
Chemical name:	/	Physical state:	Solid
CAS number:	/	Color:	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 article (TA): Original concentration was applied in this test.

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 ₁₂ H ₂₅ SO ₄ Na
Manufacturer:	VETEC™
Validity period:	28 th September, 2026

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2.2 Negative control (NC): Dulbecco's phosphate buffered saline (DPBS) solution

Chemical name: /
CAS number: /
Physical state: Liquid
Purity: /
Lot number: GP24090311458
Relative molecular weight: /
Molecular formula: /
Manufacturer: Servicebio
Validity period: 28th 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 substances 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 $SD \leq 18\%$, 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 $SD \leq 18\%$, 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 $SD \leq 18\%$, then the test substance results from the same batch of tests are considered acceptable.

4. Test materials:

4.1 Test kit: Episkin In Vitro Artificial Skin Model Test Kit (S1), batch number: 25ER111110S1

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 hydrochloride was measured at 570nm of the microplate reader, and the relative activity of the model was calculated with isopropanol hydrochloride as a blank control.

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4.3 Culture conditions: 37°C, 5% CO₂, relative humidity 95%.

4.4 Culture medium: Skin Model Maintenance Medium (Lot: 25-MAIN-1106) and Test Medium (Lot: 25-ASSAY-1106)

4.5 MTT solution: The MTT was dissolved in DPBS buffer to prepare a stock solution with a concentration of 3 mg/mL. Before use, it was diluted with the detection culture solution at a volume ratio of 1: 9, so that the final concentration was 0.3 mg/mL (MTT stock solution, Lot: 20251031)

4.6 Isopropanol hydrochloride (0.04 mol/L): Add 0.18 mL 12 mol/L hydrochloric acid into 50 mL isopropanol, and keep it away from light at 2-8°C for one month (Isopropanol hydrochloride, Lot: 20251031).

5. Test procedure:

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5.1 Preparation of skin model: Add the pre-heated maintenance culture solution to 2mL/well of 12-well culture plate, transfer the skin model to contain the maintenance culture solution, and put it in an incubator for cultivation overnight.

5.2 Reaction between the sample to be tested and MTT: Add 2 mL 0.3 mg/mL MTT solution and 10 mg of the sample to be tested to a 12-well plate, mix well, and incubate in an incubator for 3 hours.

5.3 Color reaction of the sample to be tested: Add 10±2 mg of sample and mix with 90μL of water and leave it at room temperature for 15min, observe whether the sample reacts in color.

5.4 Sample addition: Transfer the model to a 12-well plate containing 2mL/well of culture medium. The NC group was added with 10 μL of DPBS, the PC group was added with 10 μL of 5% SDS, and the TA group was added with 10 mg of the test sample was added. Evenly spread the surface of the skin model, after 15 min at room temperature, rinse the sample thoroughly with DPBS until there is no residue, and then place it in a well containing fresh maintenance medium for 42 h incubation. Set up 3 parallels per group.

5.5 Put the skin model in a well containing 2 mL 0.3 mg/ml MTT solution and put it in an incubator for 3 hours. After MTT reaction, remove the epidermal tissue with a hole punch, transfer it to a 2 mL EP centrifuge tube, add 500 μL isopropanol hydrochloride to each tube, mix well, and place it overnight at room temperature in the dark. Take 200 μL solution from each tube in a 96-well plate, and read the OD value at 570 nm. Isopropanol hydrochloride was used as blank control.

6. Analysis:

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

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

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

Table 1. Prediction model based on skin irritation determination 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 test sample and MTT: The test sample has no reaction with MTT.

7.2 Color response of the sample to be measured: No significant color interference with the sample is determined.

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	1.1826±0.0319	100.00±2.70	No Skin irritation	No Category
PC	0.0641±0.0047	5.42±0.40	Skin irritation	Category 1/2
TA	1.1042±0.0163	93.37±1.38	No Skin irritation	No Category

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

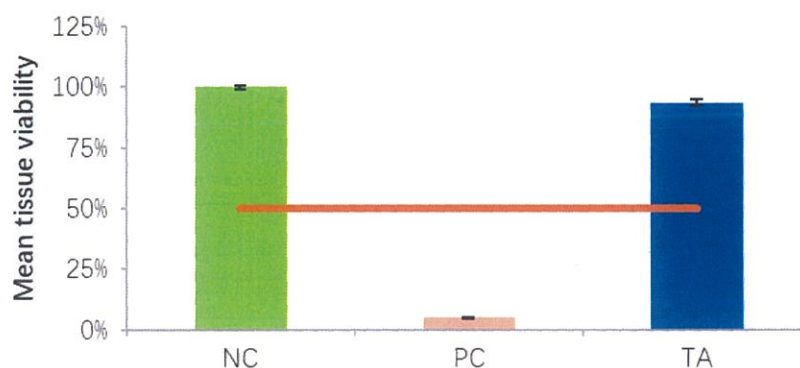


Figure 1. Test Results

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 Gloss" sent in this batch has no skin irritation, and the GHS classification is No Category.

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