TEST REPORT

REPORT NO. : 66253590398
DATE : 2 Feb, 2026

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, MO6809, MO6943, MO2905, 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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Prepared by: Maggie Jin Approved By : Rex Zhang

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Test Results

Appendix:

1. Test sample information:

Name of Sample:	Vegan lip balm	L/N:	MO2525, MO6809, MO6943, MO2905, 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:	$C_{12}H_{25}SO_4Na$
Manufacturer:	VETEC™
Validity period:	28th 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 ⩽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 ⩽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 ⩽8%, then the test substance results from the same batch of tests are considered acceptable.

(Continued on next page)

4. Test materials:

4.1 Test kit: SkinEthic In Vitro Artificial Skin Model Test Kit (RHE), batch number: 26ChRHE-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_2, 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 μL 1 mg/mL MTT solution and 16μL 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±2 μL of sample and mix with 90 μL 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 μL/well of culture medium. The NC group was added with 16 μL of DPBS, the PC group was added with 16 μL of 5% SDS, and the TA group was added with 16 μL 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 μL 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 μL of isopropanol, transfer skin model into a 24-well plate containing isopropanol (Add 750 μL isopropanol on top). 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 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.

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

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.

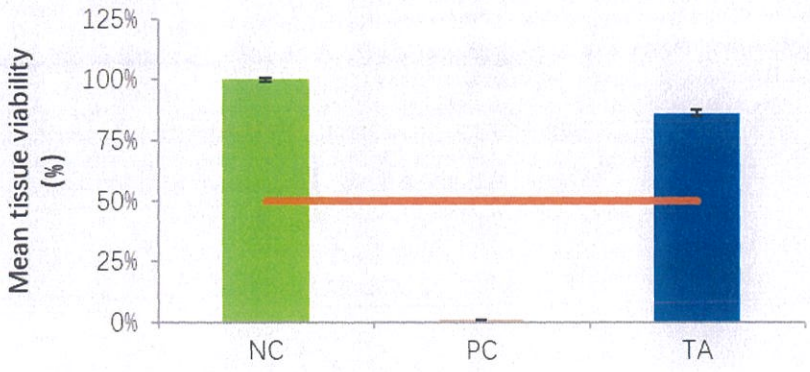

Figure 1. Test Results

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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7. Without the consent of the Company, the entruster shall not use the test results for improper publicity.
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TEST REPORT

REPORT NO. : 66253590403
DATE : 5 Feb, 2026
PAGE : 1 OF 7

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:	MO6809	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: Green 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:	MO6809
Chemical Name:	/	Physical state:	Solid
CAS number:	/	Colour:	Green
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:	$C_{12}H_{25}SO_4Na$
Manufacturer:	VETEC™
Validity period:	28th 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 ≤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 ≤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 ≤8%, then the test substance results from the same batch of tests are considered acceptable.

(Continued on next page)

4. Test materials:

4.1 Test kit: SkinEthic In Vitro Artificial Skin Model Test Kit (RHE), batch number: 26ChRHE-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℃, 5% CO_2, relative humidity 95%

4.4 Culture medium: Skin Model Maintenance Medium (Lot: 26-SMM-0122) and Growth Medium (Lot: 26-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 μL 1 mg/mL MTT solution and 16 μL 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±2 μL of sample and mix with 90 μL 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 μL/well of culture medium. The NC group was added with 16 μL of DPBS, the PC group was added with 16 μL of 5% SDS, and the TA group was added with 16 μL 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 μL 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 μL of isopropanol, transfer skin model into a 24-well plate containing isopropanol (Add 750 μL isopropanol on top). 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 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.

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

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	2.1550±0.0311	90.21±1.30	No Skin irritation	No Category

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

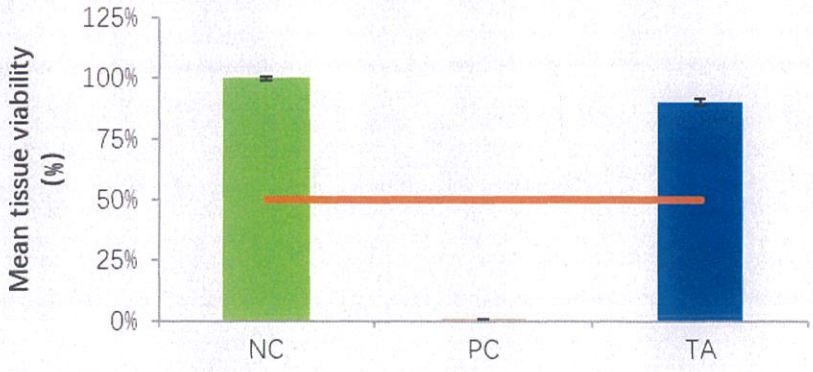

Figure 1. Test Results

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

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Statements

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8. Some/all of the test items in the report without CMA mark have not been certified, and are only used for scientific research, teaching, internal quality control of enterprises, and efficacy research of enterprise products.

TEST REPORT

REPORT NO. : 66253590406
DATE : 5 Feb, 2026

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:	MO6809	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: Pink 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:	MO6809
Chemical Name:	/	Physical state:	Solid
CAS number:	/	Colour:	Pink
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:	$C_{12}H_{25}SO_4Na$
Manufacturer:	VETEC™
Validity period:	28th 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 ⩽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 ≤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 ⩽8%, then the test substance results from the same batch of tests are considered acceptable.

(Continued on next page)

4. Test materials:

4.1 Test kit: SkinEthic In Vitro Artificial Skin Model Test Kit (RHE), batch number: 26ChRHE-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_2, relative humidity 95%

4.4 Culture medium: Skin Model Maintenance Medium (Lot: 26-SMM-0122) and Growth Medium (Lot: 26-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 μL 1 mg/mL MTT solution and 16 μL 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±2 μL of sample and mix with 90 μL 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 μL/well of culture medium. The NC group was added with 16 μL of DPBS, the PC group was added with 16 μL of 5% SDS, and the TA group was added with 16 μL 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 μL 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 μL of isopropanol, transfer skin model into a 24-well plate containing isopropanol (Add 750 μL isopropanol on top). 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 570nm. Isopropanol was used as blank control.

(Continued on next page)

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.

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

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	2.2138±0.0840	92.67±3.52	No Skin irritation	No Category

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

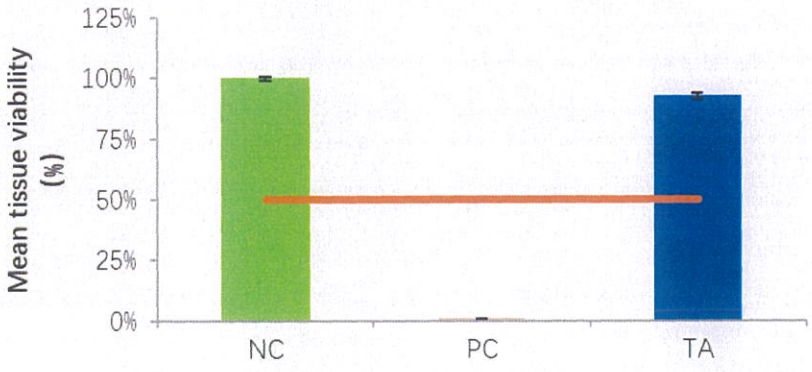

Figure 1. Test Results

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

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8. Some/all of the test items in the report without CMA mark have not been certified, and are only used for scientific research, teaching, internal quality control of enterprises, and efficacy research of enterprise products.

TEST REPORT

REPORT NO. : 66253590407
DATE : 5 Feb, 2026

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:	MO6809	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: Beige 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.
Mr. Rex ZHANG
Technical Development Manager
rex.zhang@bureauveritas.com

Prepared by: Maggie Jin Approved By : Rex Zhang

Bureau Veritas Testing Technical Service (Zhejiang) Co., Ltd Shanghai Branch
Room 701, Building 56, No.248 Guanghua Road, Minhang District, Shanghai, China
Tel:021-24081580
website:cps.bureauveritas.com

Test Results

Appendix:

1. Test sample information:

Name of Sample:	Vegan lip balm	L/N:	MO6809
Chemical Name:	/	Physical state:	Solid
CAS number:	/	Colour:	Beige
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:	$C_{12}H_{25}SO_4Na$
Manufacturer:	VETEC™
Validity period:	28th September, 2026

(Continued on next page)

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 ≤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 ≤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 ≤8%, then the test substance results from the same batch of tests are considered acceptable.

(Continued on next page)

4. Test materials:

4.1 Test kit: SkinEthic In Vitro Artificial Skin Model Test Kit (RHE), batch number: 26ChRHE-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℃, 5% CO_2, relative humidity 95%

4.4 Culture medium: Skin Model Maintenance Medium (Lot: 26-SMM-0122) and Growth Medium (Lot: 26-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 μL 1 mg/mL MTT solution and 16 μL 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±2 μL of sample and mix with 90 μL 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 μL/well of culture medium. The NC group was added with 16 μL of DPBS, the PC group was added with 16 μL of 5% SDS, and the TA group was added with 16 μL 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 μL 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 μL of isopropanol, transfer skin model into a 24-well plate containing isopropanol (Add 750 μL isopropanol on top). 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 570nm. Isopropanol was used as blank control.

(Continued on next page)

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.

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

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	2.2008±0.0372	92.12±1.56	No Skin irritation	No Category

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

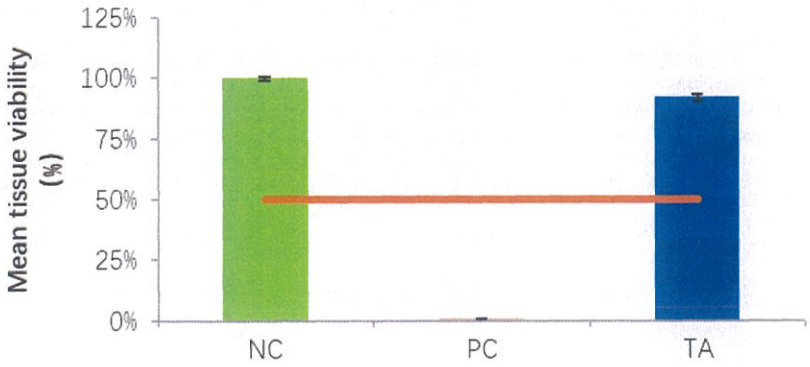

Figure 1. Test Results

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

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Statements

1. If the report is not stamped with the "special seal for inspection and testing or special seal for report" or is not signed by the approver, it will be invalid.
2. This report shall not be modified, added or deleted without authorization, otherwise it shall be null and void.
3. Partial provision or partial reproduction of the report shall be deemed invalid. The full copy shall be deemed invalid if it is not re-stamped with the "special seal for inspection and testing or special seal for report".
4. If you have any questions about the report, please submit them within 15 working days after receiving the report.
5. The results of this report are only responsible for the samples tested this time.
6. The Client is responsible for the authenticity of the sample and its related information.
7. Without the consent of the Company, the entruster shall not use the test results for improper publicity.
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TEST REPORT

REPORT NO. : 66253590401
DATE : 5 Feb, 2026
PAGE : 1 OF 7

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:	MO6809	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: Blue 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.

Mr. Rex ZHANG
Technical Development Manager
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Prepared by: Maggie Jin

Approved By : Rex Zhang

Bureau Veritas Testing Technical Service (Zhejiang) Co., Ltd Shanghai Branch
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Tel:021-24081580
website:cps.bureauveritas.com

Test Results

Appendix:

1. Test sample information:

Name of Sample:	Vegan lip balm	L/N:	MO6809
Chemical Name:	/	Physical state:	Solid
CAS number:	/	Colour:	Blue
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:	$C_{12}H_{25}SO_4Na$
Manufacturer:	VETEC™
Validity period:	28th September, 2026

(Continued on next page)

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 ≤ 8%, the negative control is considered acceptable.

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4. Test materials:

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

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6. Analysis:

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TA	2.1954±0.0458	91.90±1.92	No Skin irritation	No Category

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

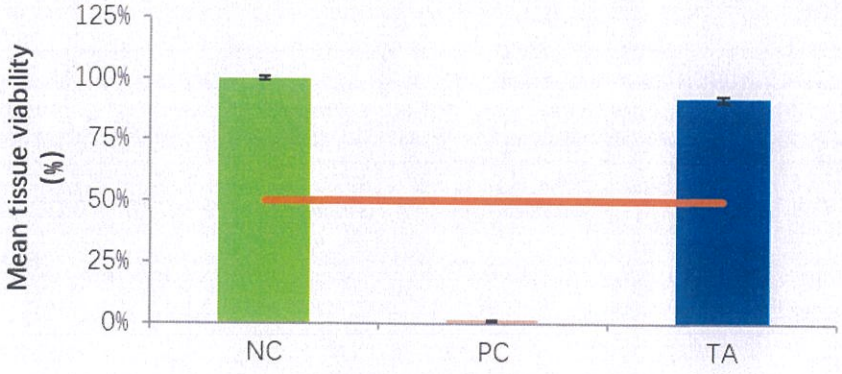

Figure 1. Test Results

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

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