

TEST REPORT

Applicant : Biotopica Group Pty Ltd
Address : Level 1, 53 Burswood Road, Burswood, WA 6100, Australia

The following merchandise was (were) submitted and identified by the client as:

Name of Sample : Biotopica® Australia Antibacterial Surface Sanitiser & Protectant
Test Type : Commission to conduct virus kill test
Sample Quantity : 1
Model : 300ml
Batch No. : B8183
Brand : Biotopica
Manufacturer: Biotopica Group Pty Ltd
Manufacturer address Level 1, 53 Burswood Road, Burswood, WA 6100, Australia
Sample Received : 2020/2/21
Test Period : 2020/2/24-2020/3/5
Test Items : Please refer to next page(s).
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).
Sample Description : Liquid

Note: 1) The relevant items are not tested for qualification rectification; only as reference for internal use.
2) The test results shown in the report were carried out by Guangzhou Institute of Respiratory Disease Medicine Co., Ltd. The report certificate number is HYS202002191.
3) This report replaces the report JKK20020049E which was issued on 10 Apr. 2020. The original report is invalid.

Edited by: 叶智坚

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Official Seal: _____

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Test Method:**1. Test Item**

- 1) Sample: Biotopica® Australia Antibacterial Surface Sanitiser & Protectant
- 2) Strain: Coronavirus HCoV-229E
- 3) Cell: Huh7
- 4) Neutralizer: 1.5% Twain, 0.5% Sodium thiosulfate cell culture medium

2. Test Request

- 1) Contact Time: 5 minutes

3. Test Method**Cytotoxicity Test**

① Sample+neutralizer ② Sample+PBS buffer solution ③ neutralizer ④ The PBS buffer solution was homogenised and rested at room temperature for 10 minutes. Huh7 cells were added into each group and incubated for 2~5 days. Observe the cell growth status and evaluate the toxicity to cells.

Identification test on neutralizer

Evaluate the candidate neutralizer. The test method and evaluation criterion refer to Technical Standard for Disinfection (2002) 2.1.1.10.5. ① Sample+coronavirus suspension, ② Sample+coronavirus suspension, ③ Sample+neutralizer, ④ neutralizer, ⑤ PBS buffer solution+coronavirus suspension. Mix, homogenized and rest at room temperature for a certain time. Add PBS buffer solution into ①, add neutralization into ②, add coronavirus suspension into ③ and ④, mix thoroughly, place at room temperature for a certain time. Normal cells were used as control samples. The test was repeated 3 times.

Virus killing test

Refer to Technical Standard for Disinfection (2002), the sample reacts with the coronavirus suspension for 5 minutes. A blank control group is set in the test.

4. Result

1. The neutralizer showed almost no toxic effect on Huh7 cells, while the product of neutralization showed a certain toxicity on Huh7 cells; the product of neutralization showed nearly no toxic effect on the cells after a certain degree of dilution.
2. The identification test on neutralizer shows that the neutralizer meets the test requirements and could neutralize the killing effect of the sample on coronavirus (Table 1).
3. Under the conditions set in this test, the sample reacts with the coronavirus suspension for 5 minutes, which has a certain killing effect on the coronavirus (Table 2).

***** To be continued *****

Table 1. Identification test on neutralizer with HCoV-229E

Group	First Test Log (TCID ₅₀ /ml)	Second Test Log (TCID ₅₀ /ml)	Third Test Log (TCID ₅₀ /ml)	Average Log (TCID ₅₀ /ml)
1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00
3	4.00	4.00	4.33	4.11
4	4.50	4.50	4.33	4.44
5	4.50	4.67	4.50	4.56
6	Cells grow normally			

Table 2. The negative logarithmic value and killing rate of Biotopica® Australia Antibacterial Surface Sanitiser & Protectant on coronavirus under specified settings

Virus	Time	Group	First Test Log (TCID ₅₀ /ml)	Second Test Log (TCID ₅₀ /ml)	Third Test Log (TCID ₅₀ /ml)	Average Log (TCID ₅₀ /ml)	Average logarithm of virus inactivation	Killing rate %
HCoV-229E	5min	Test group	0.00	0.00	0.00	0.00		
		Control group	4.33	4.33	4.67	4.44	4.44	>99.99

***** To be continued *****

SAMPLE PHOTO



***** END OF REPORT *****

Biotopica Australia

Statement

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Since the Client's causes lead to modify the contents of the test report, the Client need to submit an application form for report change to the Company. The Client shall bear the modification cost and return the original test report if the Company approves to reissue the test report.
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