

广州市微生物研究所有限公司
GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

检测报告
TEST REPORT

Report Number	KY20200727
Name of Sample	720 Air Disinfectant Filter Material
Applicant	Qierling (Beijing) Health Technology Co., Ltd.

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

TEST REPORT

Date Received: Oct. 19, 2020

Date Analyzed: Oct. 19, 2020

Name of Sample	720 Air Disinfectant Filter Material	Source of Sample	Delivery
Applicant	Qierling (Beijing) Health Technology Co., Ltd.	Client	Cao Lan
Manufacturer	Qierling (Beijing) Health Technology Co., Ltd.	Brand	720
Type and Specification	---	Quantity of Sample	1PC
Date of Production	2020.08.18	State of Sample	Flake
Batch Number	---	Packing of Sample	In box
Standard and Methods	<ol style="list-style-type: none"> Referring to ISO 18184-2019 Determination of Antiviral Activity of Textile Products Referring to <Technical Standard For Disinfection> 2002 		
Items of Analysis	Virus Killing Test (<i>Coronavirus</i> HCoV-229E)		
Remarks	<ol style="list-style-type: none"> The client claims that the filter material is covered with disinfection models DS-X400N, DS-X400W, DS-P400, DS-S800, DS-X1000W and DS-X1000N. All other parameters, including composition and formula of the filter screen are identical between models. This test report is the English additional edition of KY20200727 issued on October 28, 2020. 		

To be continued

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Killing Test:

1. Test Supplies
 - 1) Strain: *Coronavirus* HCoV-229E
 - 2) Cells: MRC-5
2. Test Conditions
 - 1) Environmental temperature: (23~25) °C
 - 2) Environmental humidity: (63~69) %RH
 - 3) Test time: 120 min
3. Test Procedure
 - 1) On the first day of the experiment, MRC-5 cells were inoculated into a 96-well cell culture plate, with 2.0×10^4 cells/well, and the cells were standby when they grew into a monolayer.
 - 2) On the second day, purifying disinfectant filter material and control filter paper with 3 cm×3 cm were cut. 200μl of 229E virus liquid containing $10^{5.8}$ TCID₅₀ was added, and eluted with 2 ml serum-free medium at room temperature for 120 min.
 - 3) Serum free DMEM medium was used for 10-fold gradient dilution of each group to 10^{-6} .
 - 4) 50μl viral diluent was added to monolayer MRC-5 cells, and each dilution was repeated with 4 wells.
 - 5) Incubate at 37°C with 5% CO₂ for 2 h, discard the supernatant, add 1% double antibody and 2% FBS medium, and culture for 5-6 days.
 - 6) Observe the cell growth condition and record the lesion every day. TCID₅₀ was calculated according to the Reed-Muench formula.

4. Test Results

Virus	Test Time (min)	Group	First Test (TCID ₅₀ /ml)	Second Test (TCID ₅₀ /ml)	Third Test (TCID ₅₀ /ml)	Mean (TCID ₅₀ /ml)	Mean Inactivation Log Value	Antiviral rate (%)
HCoV-229E	120	Control Group	1.12×10^4	2.00×10^4	1.12×10^4	1.41×10^4	>3.35	>99.96
		Test Group	<6.32	<6.32	<6.32	<6.32		

End of report

Editor

Checker

Issuer

Date Reported



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7. Any ambiguity by the language which used in the report, the Chinese shall prevail.

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