



中国认可
国际互认
检测
TESTING
CNAS L16720



TEST REPORT

Report Number BY20260099

Name of Sample Electronic Air Filter

Applicant AirQuality Technology (Shanghai) Co.,Ltd.

GUANG DONG HUA WEI TESTING CO.,LTD.



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TEST REPORT

Test No. BY20260099

Name of Sample	Electronic Air Filter	Test Type	Delivery
Applicant	AirQuality Technology (Shanghai) Co.,Ltd.	Client	Zhengge Qi
Manufacturer	AirQuality Technology (Shanghai) Co.,Ltd.	Brand	AIRQUALITY
Type and Specification	EAF	Quantity of Sample	1 PC
Production Date/Batch No.	_____	Status	Machine
Date Received	June 29, 2026	Date Analyzed	From June 29, 2026 to July 14, 2026
Standard and Methods	GB/T 18801-2022 Air cleaner Appendix H		
Items of Analysis	Virus removal rate (<i>Influenza A virus</i> A/PR/8/34 H1N1)		
Test Conclusion	The test results of the sample are shown on page 3~4 of this report. Issue Date <u>2026.07.24</u>		
Remarks	_____		

Editor

Checker

Issuer

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Test Introduction	
Test Conditions	1. Temperature: (22.7~23.5)°C; Humidity: (54~58) %RH 2. Test time: 60 min 3. Test volume: 30 m ³ 4. Test gear: Wind speed of 2.5m/s.
Main Test Instrument and Reagent	1. Instruments Microbiological aerosol generator, Air microbiological sampler, Inverted microscope, Carbon dioxide incubator, Biosafety cabinet,. 2. Reagent Cell culture medium, Fetal bovine serum, Penicillin-Streptomycin, PBS, Trypsin.
Test Procedure	1. The day before the experiment, the cells were inoculated into the 96-well cell culture plate, which was reserved for cell growth and confluence to monolayer. 2. Put the experimental equipment into two adjacent test chambers at one time, then closed the hatch door and opened the high efficiency filtration system. At the same time, adjusted the temperature of the two test chambers to (20~25) °C and the humidity to (50~70) %RH. 3. The aerosol generator was turned on for atomization and poisoning. After atomization, the aerosol was stirred for 5 minutes, and let it stand for 5 minutes, then the microbiological sampler was used for initial concentration sampling of the test group and the control group respectively. 4. After the specified time, the final concentration of test group and control group was sampled again with the microbiological sampler. 5. The control group was consistent with the test group except that the sample to be tested was not run, and the experiment was repeated 3 times. 6. Gradient dilution of the recovered solution was added to the cell culture plate and transferred to the carbon dioxide incubator, <i>Influenza A virus</i> A/PR/8/34 H1N1 cultured at 34°C and 5% CO ₂ for 5 days. Cell growth was observed every day, lesions were recorded, and half of the tissue infection amount TCID ₅₀ was calculated.
Computational Formula	Natural decay rate: $N_t(\%) = \frac{V_0 - V_t}{V_0} \times 100\%$ Virus removal rate: $K_t(\%) = \frac{V_1 \times (1 - N_t) - V_2}{V_1 \times (1 - N_t)} \times 100\%$ V_0 – The virus titer of the control group before the experiment. V_t – The virus titer of the control group after the experiment V_1 – The virus titer of the test group before the experiment. V_2 – The virus titer of the test group after the experiment. (Continued on next page)

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Test Results							
The Test Virus and Host	Test Number	Control Group Virus Titer		Natural Decay Rate N_t (%)	Test Group Virus Titer		Virus Removal Rate K_t (%)
		The Initial Concentration V_0 (TCID ₅₀ /m ³)	The final Concentration V_t (TCID ₅₀ /m ³)		The Initial Concentration V_1 (TCID ₅₀ /m ³)	The Final Concentration V_2 (TCID ₅₀ /m ³)	
<i>Influenza A virus</i> (A/PR/8/34 H1N1) Host: MDCK cells	1	5.69×10 ⁶	1.57×10 ⁶	72.41	4.73×10 ⁶	1.25×10 ⁵	90.42
	2	4.06×10 ⁶	1.18×10 ⁶	70.94	3.38×10 ⁶	6.32×10 ⁴	93.57
	3	1.05×10 ⁶	3.42×10 ⁵	67.43	3.16×10 ⁶	7.48×10 ⁴	92.73
	Mean						92.24

Note: The control cells grew normally.



Sample photo

(End of report)

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