



中国认可
国际互认
检测
TESTING
CNAS L0823



广州市微生物研究所集团股份有限公司

Guangzhou Institute of Microbiology Group Co., Ltd.

国家空气净化产品质量检验检测中心

National Center of Quality Inspection and Testing on Air Purification Products

检 测 报 告

TEST REPORT

Report Number

KJ2026001731E

Name of Sample

Electronic Air Filter

Applicant

AirQuality Technology(Shanghai)Co., Ltd.



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**NATIONAL CENTER OF QUALITY INSPECTION AND TESTING
ON AIR PURIFICATION PRODUCTS**

TEST REPORT

Date Received: Jun. 30, 2026

Date Analyzed: Jul. 09, 2026

Name of Sample	Electronic Air Filter	Source of Sample	Delivery
Applicant	AirQuality Technology(Shanghai)Co., Ltd.	Client	Qi Zhengge
Manufacturer	AirQuality Technology(Shanghai)Co., Ltd.	Brand	AIRQUALITY
Type and Specification	EAF	Quantity of Sample	1PC
Date of Production	---	State of Sample	Machine
Batch Number	---	Packing of Sample	In box
Sample Picture			
Standard and Methods	1. GB/T 18801-2022 Air cleaner 2. GB 21551.3-2010 Antibacterial and cleaning function for household and similar electrical appliances-Particular requirements of air cleaner		
Items of Analysis	Eliminating Microbial Rate (<i>Aspergillus niger</i> ATCC 9642)		
Remarks	Rated wind speed 2.5 m/s test.		

To be continued



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Test Method for Eliminating Microbial Performance:

1. Test Equipment
 - 1) Strain: *Aspergillus niger* ATCC 9642
 - 2) Microbial aerosol generator: TK-3
 - 3) Culture media: PDA
 - 4) Sampling equipment: FA-1 Air microbe sampler
2. Test Conditions
 - 1) The volume of the test chamber: 10m³
 - 2) Environment temperature: (22.3~23.4)°C
 - 3) Environment humidity: (65~67)%RH
 - 4) Test time: 60min
3. Operation Conditions of the Machine
Just power on during the test.
4. Computational Formula

$$\text{Natural Decay Rate } N_t(\%) = \frac{V_0 - V_t}{V_0} \times 100\%$$

$$\text{Eliminating Microbial Rate } K_t(\%) = \frac{V_1 \times (1 - N_t) - V_2}{V_1 \times (1 - N_t)} \times 100\%$$

Where: V_0 = Original Microbial Count of Control Group,
 V_t = Microbial Count after Treatment of Control Group,
 V_1 = Original Microbial Count of Test Group,
 V_2 = Microbial Count after Treatment of Test Group.

To be continued

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Test Results:

Number of Sample	Test Time (min)	Test Strain	Test Number	Control Group			Test Group		Eliminating Microbial Rate (%)
				Original Microbial Count (cfu/m³)	Microbial Count after Treatment (cfu/m³)	Natural Decay Rate (%)	Original Microbial Count (cfu/m³)	Microbial Count after Treatment (cfu/m³)	
KJ2026001731-001	60	<i>Aspergillus niger</i>	1	1.27×10 ⁵	1.02×10 ⁵	19.69	1.36×10 ⁵	85	99.92
			2	1.33×10 ⁵	1.00×10 ⁵	24.81	1.40×10 ⁵	85	99.92
			3	1.34×10 ⁵	1.02×10 ⁵	23.88	1.43×10 ⁵	78	99.93
			Mean						

Note: No microorganisms grew in the negative control group.

End of report

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23-Jul-2026





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