



中国认可  
国际互认  
检测  
TESTING  
CNAS L0823



202019005395

# 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 KJ20210566

Name of Sample Air Purifier

Applicant Healthy Air Technology Ltd.



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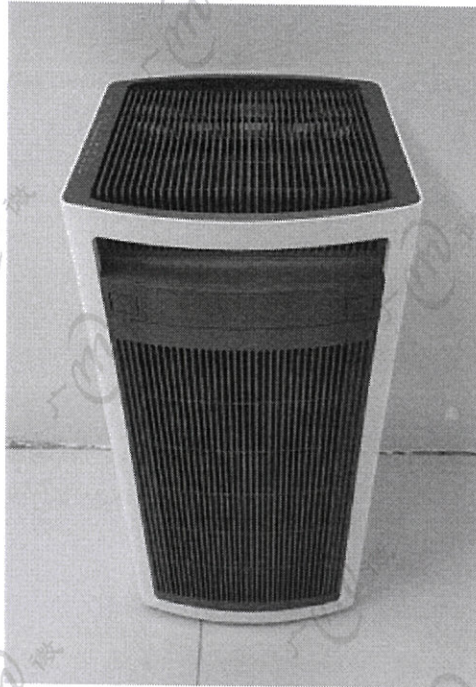
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Date Received: Feb. 22, 2021

Date Analyzed: Mar 01, 2021

Name of Sample	Air Purifier	Source of Sample	Delivery
Applicant	Healthy Air Technology Ltd.	Client	Yu Huang
Manufacturer	Healthy Air Technology Ltd.	Brand	Healthy Air Technology
Type and Specification	HA800	Quantity of Sample	1PC
Date of Production	---	State of Sample	Machine
Batch Number	202006	Packing of Sample	In box
Sample Picture			
Standard and Methods	<ol style="list-style-type: none"> <li>1. GB/T 18801-2015 Air cleaner</li> <li>2. GB 21551.3-2010 Antibacterial and cleaning function for household and similar electrical appliances-Particular requirements of air cleaner</li> </ol>		
Items of Analysis	Eliminating Bacterial Rate ( <i>Staphylococcus albus</i> 8032)		
Remarks	---		

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





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**Test Method for Air Purifier Eliminating Bacterial Performance:**

1. Test Equipment

- 1) Strain: *Staphylococcus albus*
- 2) Microbial aerosol generator: TK-3
- 3) Culture media: NA
- 4) Sampling equipment: six-stage sieve sampler

2. Test Conditions

- 1) The volume of the test chamber: 30 m<sup>3</sup>
- 2) Environment temperature: (20~25) °C
- 3) Environment humidity: (50~70) %RH

3. Operation Conditions of the Machine

Set the switch to position "Turbo".

4. Test Procedure

- 1) Get a bacteria slant culture (4~5 generation) which is incubated at 37 °C for 24 h, wash the culture from this slant with 10 mL NB, filter the liquid culture by aseptic cotton buds, and dilute this inoculum with NB to suitable concentration. Then make atomized bacterial suspension.
- 2) The equipment is placed in the two test chambers, close the door, and turn on the HEPA filter system. Simultaneously operate the environmental control devices until the temperature reaches (20~25)°C, relative humidity reaches (50~70)%. Turn off the chamber environmental control system.
- 3) Release microbial aerosol: turn on the microbial aerosol generator, then turn on the ceiling fan, turn off the fan after 10 min, and let stand for 15 min.
- 4) At the same time, the test group and the control group were sampled with six-stage sieve sampler.
- 5) The test group started the sample and sampled after 60 min of action, and the control group also sampled in the corresponding time period.
- 6) Choose 2 NA plates (the same batch) as the negative control, and culture them on the same condition with the samples.
- 7) Run the test three times and take the mean as the final result.

5. Computational Formula

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

Where:  $V_0$  = original bacteria count of control group;  $V_t$  = bacteria count after treatment of control group.

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

Where:  $V_1$  = original bacteria count of test group;  $V_2$  = bacteria count after treatment of test group.

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



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Test Results

Number of Sample	Test Strain	Test Time (min)	Test Number	Control Group			Test Group		Eliminating Bacterial Rate $K_t$ (%)
				Original Bacteria Count $V_0$ (cfu/m <sup>3</sup> )	Bacteria Count after Treatment $V_t$ (cfu/m <sup>3</sup> )	Natural Decay Rate $N_t$ (%)	Original Bacteria Count $V_1$ (cfu/m <sup>3</sup> )	Bacteria Count after Treatment $V_2$ (cfu/m <sup>3</sup> )	
KJ20210469-1	<i>Staphylococcus albus</i>	60	1	1.21×10 <sup>5</sup>	1.14×10 <sup>5</sup>	5.79	1.15×10 <sup>5</sup>	<7	>99.99
			2	1.14×10 <sup>5</sup>	1.09×10 <sup>5</sup>	4.38	1.17×10 <sup>5</sup>	<7	>99.99
			3	1.12×10 <sup>5</sup>	1.05×10 <sup>5</sup>	6.25	1.05×10 <sup>5</sup>	<7	>99.99
			Mean						>99.99

Note: The negative control group was sterile growth.

\*\*\*End of report\*\*\*

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