



中国认可
国际互认
检测
TESTING
CNAS L0823



201719001121

广州市微生物研究所

GUANG ZHOU INSTITUTE OF MICROBIOLOGY

检测报告

TEST REPORT

Report Number

KJ20190367

Name of Sample

Air Purifier

Applicant

Sino Vantage Industrial Ltd.

GUANG ZHOU INSTITUTE OF MICROBIOLOGY

TEST REPORT

Date Received: Mar. 13, 2019

Date Analyzed: Mar. 19, 2019

Name of Sample	Air Purifier	Source of Sample	Delivery
Applicant	Sino Vantage Industrial Ltd.	Client	Wilson Lam
Manufacturer	Sino Vantage Industrial Ltd.	Brand	LightAir
Type and Specification	CFPro900	Quantity of Sample	1PC
Date of Production	---	State of Sample	Machine
Batch Number	---	Packing of Sample	In box
Sample Picture			
Standard and Methods	GB 21551.3-2010 Antibacterial and cleaning function for household and similar electrical appliances-Particular requirements of air cleaner		
Items of Analysis	Eliminating Bacterial Rate (<i>Staphylococcus aureus</i> ATCC 6538)		
Remarks	---		

To be continued



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Test Method for Air Purifier Disinfection Performance:

1. Test Equipment
 - 1) Strain: *Staphylococcus aureus*
 - 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 m³
 - 2) Environment temperature: (20~25) °C
 - 3) Environment humidity: (50~70) %RH
3. Operation Conditions of the Air Purifier
Set the switch to position "The highest wind speed".
4. Test Procedure
 - 1) Get a bacteria slant culture (4~7 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 inoculums with NB as appropriate.
 - 2) The equipments are placed in the test chambers, close the door, and turn on the HEPA filter system. Simultaneously operate the environmental control devices until the temperature reaches 20 °C~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) Original bacteria aerosols collected by six-stage sieve sampler.
 - 5) The air purifier are adjusted to the highest air cleaning mode setting for test (test group). Bacteria aerosols (control group and test group) are collected at 60 min.
 - 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.

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

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		Killing Rate K_t (%)
				Original Bacteria Count V_0 (cfu/m ³)	Bacteria Count after Treatment V_t (cfu/m ³)	Natural Decay Rate N_t (%)	Original Bacteria Count V_1 (cfu/m ³)	Bacteria Count after Treatment V_2 (cfu/m ³)	
KJ20190367-1	<i>Staphylococcus aureus</i>	60	1	1.05×10^5	8.23×10^4	21.62	1.33×10^5	85	99.92
			2	1.11×10^5	8.58×10^4	22.70	1.19×10^5	28	99.97
			3	1.21×10^5	9.44×10^4	21.98	1.25×10^5	49	99.95
			Mean						99.95

Note: The negative control group was sterile growth.

*** End of report***

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Date Reported





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