



中国认可
国际互认
检测
TESTING
CNAS L0823




201719001121

Test No.

GUANGZHOU TESTING CENTER OF INDUSTRIAL MICROBIOLOGY TEST REPORT

Date Received: Mar. 09, 2018

Date Analyzed: Mar. 16, 2018

Name of Sample	UVC Sterilizer & Balanced Ion Air Purifier	Source of Sample	Delivery
Applicant		Client	
Manufacturer		Brand	
Type and Specification		Quantity of Sample	1PC
Date of Production	2018.03.07	Sample description	Machine
Batch Number	——	Packing of Sample	In box
Sample Picture			
Standard and Methods	GB21551.3-2010 Antibacterial and cleaning function for household and similar electrical appliances-Particular requirements of air cleaner		
Items of Analysis	Killing Rate (<i>Escherichia coli</i> 8099)		
Remarks	——		

To be continued



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Test Method for Air Purifier Disinfection Performance:

1. Test equipment
 - 1) Strain: *Escherichia coli*
 - 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: 3 m³
 - 2) Ambient temperature: (20~25) °C
 - 3) Ambient humidity: (50~70) %RH
3. Operation conditions of the air purifier
Set the switch to position :“The second level wind speed”(green light).
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, release the microbial aerosol for 15 mins ~20 mins at 0.2 MPa, turn on the ceiling fan, then turn off the fan after 10 mins, and let stand for 15 mins.
 - 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 1 h .
 - 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 Time (h)	Test Strain	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)	
KJ20180283-1	1	<i>Escherichia coli</i>	1	1.21×10^5	8.11×10^4	32.98	1.32×10^5	1.60×10^3	98.19
			2	1.14×10^5	7.56×10^4	33.68	1.26×10^5	1.40×10^3	98.32
			3	1.24×10^5	8.62×10^4	30.48	1.36×10^5	1.70×10^3	98.20
			Mean						98.24

*** End of report ***

Editor

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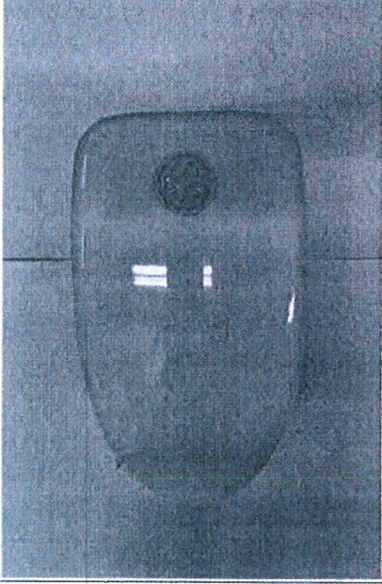


Test No.

GUANGZHOU TESTING CENTER OF INDUSTRIAL MICROBIOLOGY TEST REPORT

Date Received: April 27, 2017

Date Analyzed: April 28, 2017

Name of Sample	UVC Sterilizer & Balanced Ion Air Purifier	Source of Sample	Delivery
Applicant		Client	
Manufacturer		Brand	
Type and Specification		Quantity of Sample	1Set (2PCs)
Date of Production	---	State of Sample	Machine
Batch Number	---	Packing of Sample	In box
Sample Picture			
Standard and Methods	GB21551.3-2010 Antibacterial and cleaning function for household and similar electrical appliances-Particular requirements of air cleaner		
Items of Analysis	Harmful Substances Release Amount (Ultraviolet radiation intensity)		
Remarks	---		



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Test No.

GUANGZHOU TESTING CENTER OF INDUSTRIAL MICROBIOLOGY TEST REPORT

Date Received: April 27, 2017
Date Analyzed: April 28, 2017

Method for Testing Harmful Substances Release Amount:

1. Test Equipment
Ultraviolet radiation intensity of illumination
2. Operation Conditions of the Machine
Set the switch to position "Green Light Mode".
3. Test Procedures
 - 1) Put the test sample into a clean space.
 - 2) Test the background concentration.
 - 3) Turn on the test unit. Test the concentration values according to the standard requirements.

Test Results

Number of Sample	Items	Units	Results	Standard Request (GB 21551.3-2010)
	UV intensity			
KJ20170455-1	at 30 cm surrounding the device	$\mu\text{W}/\text{cm}^2$	1	≤ 5

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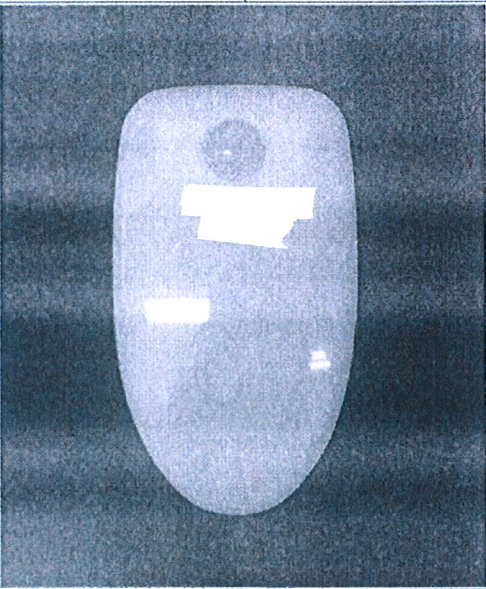


2015191101Z

Test No.

GUANGZHOU TESTING CENTER OF INDUSTRIAL MICROBIOLOGY TEST REPORT

Date Received: Oct. 25, 2017
Date Analyzed: Nov. 01, 2017

Name of Sample	UVC Sterilizer & Balanced Ion Air Purifier	Source of Sample	Delivery
Applicant		Client	
Manufacturer		Brand	
Type and Specification		Quantity of Sample	1PC
Date of Production	2017.10.20	State of Sample	Machine
Batch Number	---	Packing of Sample	In box
Sample Picture			
Standard and Methods	GB21551.3-2010 Antibacterial and cleaning function for household and similar electrical appliances-Particular requirements of air cleaner		
Items of Analysis	Harmful Substances Release Amount (Ozone)		
Remarks	---		



To be continued



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GUANGZHOU TESTING CENTER OF INDUSTRIAL MICROBIOLOGY TEST REPORT

Date Received: Oct. 25, 2017
Date Analyzed: Nov. 01, 2017

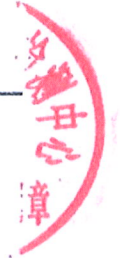
Method for Testing Harmful Substances Release Amount:

1. Test Equipment
Ozone Analyzer
2. Operation Conditions of the Machine
Turn on the "Normally-on Mode (Green Light)".
3. Test Procedure
 - 1) Put the test sample into a clean space.
 - 2) Test the background concentration.
 - 3) Turn on the test unit. Test the ozone concentration at 5 cm distance away from the air outlet.

Test Results

Number of Sample	Items	Unit	Results	Standard Request (GB 21551.3-2010)
	Ozone			
KJ20171579-1	(5 cm away from the air outlet)	mg/m ³	< 0.003	≤ 0.10

End of report



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