



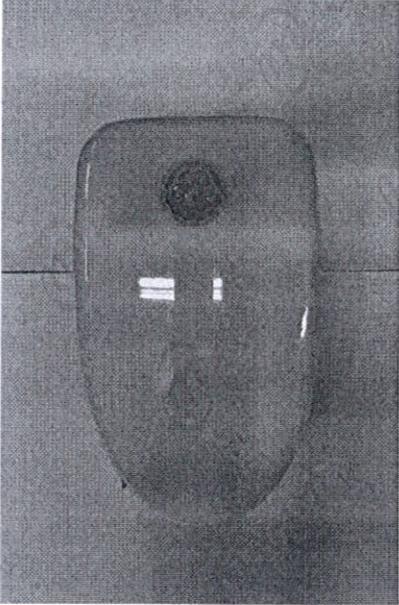
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Test No.KJ20170403

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	Shenzhen Smart Team Teechnology Ltd.	Client	Hou Yanchao
Manufacturer	Shenzhen Xin Jun Meng Energy Technology Co., Ltd.	Brand	CSTT
Type and Specification	Ai202	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	Killing Rate (<i>Escherichia coli</i> 8099)		
Remarks	---		

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Method for Measuring Air Disinfection:

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) Environment temperature: (20~25) °C
 - 3) Environment humidity: (50~70) %RH
3. Operational conditions of the machine
Set the switch to position :“Green Light Mode”.
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 respectively, close the door, and open the HEPA filter. Simultaneously operate the environmental control devices until the experimental cabin temperature to be 20 °C~25 °C, relative humidity to be 50%~70%, Turn off the chamber environmental control system.
 - 3) Release microbial aerosol: turn on the microbial aerosol generator, release the microbial aerosol 15 min ~20 min at 0.2 MPa, operate the ceiling mixing fan, then 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 cleaner 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 respectively.
 - 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.

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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)	
KJ20170403-1	1	<i>Escherichia coli</i>	1	1.17×10^5	8.35×10^4	28.63	1.15×10^5	71	99.91
			2	1.29×10^5	9.14×10^4	29.15	1.30×10^5	71	99.92
			3	1.23×10^5	8.76×10^4	28.78	1.24×10^5	71	99.92
			Mean						99.92

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Editor 黄东总

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