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CNAS L0823



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

KJ20204201

Name of Sample

PURACLENZ AIR PURIFIER

Applicant

Shenzhen Geterui Technology Co., Ltd.



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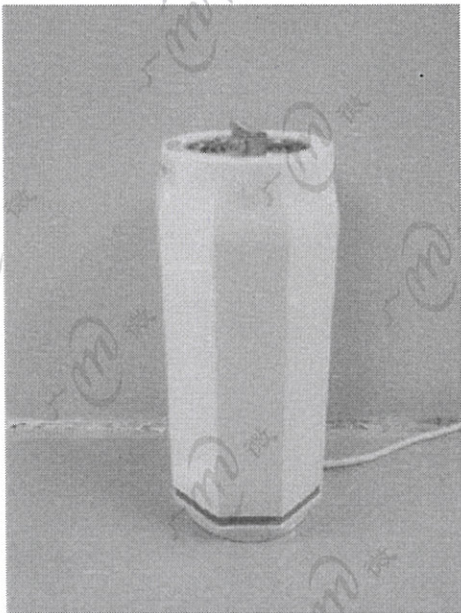
Test No. KJ20204201

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

TEST REPORT

Date Received: Nov. 16, 2020

Date Analyzed: Nov. 17, 2020

Name of Sample	PURACLENZ AIR PURIFIER	Source of Sample	Delivery
Applicant	Shenzhen Geterui Technology Co., Ltd.	Client	Huo Yongqiu
Manufacturer	—	Brand	PURACLENZ
Type and Specification	P3000	Quantity of Sample	1PC
Date of Production	2020.11.14	State of Sample	Machine
Batch Number	—	Packing of Sample	In box
Sample Picture			
Standard and Methods	1. GB/T 18801-2015 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 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) Test Strains: *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 m³
 - 2) Environment temperature: (20~25) °C
 - 3) Environment humidity: (50~70) %RH
3. Operation Conditions of the Machine
Just power on during the test.
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 equipments are 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 90 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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202019005395

Test No. KJ20204201

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

TEST REPORT

Date Received: Nov. 16, 2020

Date Analyzed: Nov. 17, 2020

Test Results

Number of Sample	Test Time (min)	Test Strain	Test Number	Control Group			Test Group		Eliminating Bacterial 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)	
KJ20204201-1	90	<i>Staphylococcus albus</i>	1	1.12×10^5	9.93×10^4	11.34	1.20×10^5	4.75×10^3	95.54
			2	1.18×10^5	1.04×10^5	11.86	1.17×10^5	4.68×10^3	95.46
			3	1.24×10^5	1.09×10^5	12.10	1.13×10^5	4.39×10^3	95.58
			Mean						95.53

Note: The negative control group was sterile growth.

End of report

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Date Reported





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202019005395

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