

TEST REPORT

NAME OF SAMPLE: Air Purifier

CLIENT: BeiAng Air Tech Ltd.

CLASSIFICATION
OFTEST: Commission Test

CVC Testing Technology Co., Ltd.

TEST REPORT

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Name of sample	Air Purifier	Trade mark	—
Type/Model	KJ300F-X5	Sample level	—
Commissioned by	BeiAng Air Tech Ltd.	Address	No.175, Songbei Road, SIP, Suzhou City, Jiangsu Province, China/ NO.15,Exi RD.,SanShan District,Anhui Province,China
Producer	BeiAng Air Tech Ltd.	Address	No.175, Songbei Road, SIP, Suzhou City, Jiangsu Province, China/ NO.15,Exi RD.,SanShan District,Anhui Province,China
Manufacturer	BeiAng Air Tech Ltd.	Address	No.175, Songbei Road, SIP, Suzhou City, Jiangsu Province, China/ NO.15,Exi RD.,SanShan District,Anhui Province,China
Quantity of sample	1 set	Sampled by	—
Sample identification	—	Sampling at (place)	—
Means of receiving	Submitted by the client	Means of sampling	—
Classification of test	Commission test	Sampling date	—
Receiving date	2021.06.25	Completing date	2021.07.27
Tested according to	BeiAng internal test method	Test items	Bacterial killing rate of ionized sterilizer module

Test conclusion:

Entrusted by BeiAng Air Tech Ltd., according to the BeiAng internal test method, the test of the bacterial killing rate of ionized sterilizer module of Air Purifier sample is carried out.The details were presented on page 4.

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Seal of CVC
Date of issue:2021.7.28

Approved by: Xu Yanjun

Reviewed by: Yu Zijun

Tested by: Ou Jiamian

XuYanjun

YuZijun

Ou Jiamian

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Description and illustration of the sample:

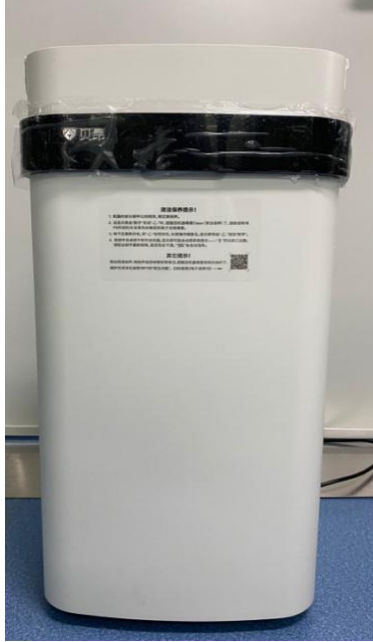


Figure 1: Sample photos



Figure 2: Ionization module photos

Description of the sampling procedure:

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Remarks:

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Summary of testing items						
No.	Name of Sample	Test Items	Test bacteria	Test result		Project details
1	Air Purifier	Bacterial killing rate of ionized sterilizer module	Staphylococcus albus (8032)	1h	79.85%	Presented on page 6
				2h	95.11%	
				3h	97.74%	

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Germshield test:

1 Test Principle

Through the test, the number of living bacteria in the collection tablets of experimental group and control group was extracted and calculated, and the conclusion was drawn whether the ionized sterilizing module could kill bacteria through the comparison of data.

Step1: Atomize 10ml staphylococcus albiculus suspension with the same concentration in four 30 m³ test chambers A, B, C and D. Then the control group air purifier #1 and the experimental group air purifier (#2, #3, #4) were simultaneously turned on for 1 hour each, so that the microorganisms were adsorbed on the collector.

Step2: Close the air purifier #1 of the control group in test chamber A, extract microorganisms from the biosafety cabinet and conduct colony culture. The number of bacteria is recorded as C_{0h}.

Step3: #2, #3 and #4 continue to operate for 1 hour and close the air purifier #2 of the experimental group in test chamber B. In the same position as the control group, microorganisms were extracted from the biosafety cabinet and colony culture was carried out. The number of bacteria is recorded as C_{1h}.

Step4: #3 and #4 continue to operate for 1 hour, and close the experimental group air purifier #3 in test chamber C. In the same position as the control group, microorganisms were extracted from the biosafety cabinet and colony culture was carried out. The number of bacteria is recorded as C_{2h}.

Step5: #4 continue to operate for 1 hour, close the test group air purifier #4 in test chamber D. In the same position as the control group, microorganisms were extracted from the biosafety cabinet and colony culture was carried out. The number of bacteria is recorded as C_{3h}.

Note 1: According to GB 21551.3-2010 test the air purifier #1, #2, #3, #4 in 30 m³ test chamber, the removal rate of Staphylococcus alba reached 99.99% in 1 hour.

Note 2: #1, #2, #3 and #4 are air purifiers of the same model and with the same configuration.

Note 3: Method of extraction: Apply the bacteria on the surface of the collector with a wet cotton swab and elute with 30ml normal saline.

Note 4: The kill rate was calculated by comparing the number of bacteria between samples from the test and control groups.

2 Test conditions

The test should be carried out in the environment room, the temperature of the environment room should be kept at 25±2°C and 50~60% relative humidity. Extraction of microorganisms from the filter should be carried out in a biosafety cabinet.

3 Test strain and concentration

Staphylococcus albus (8032)

4 Calculation method of test results

Bacterial killing rate of ionized sterilizer module = $(C_{0h} - C_{1h,2h,3h}) / C_{0h} \times 100\%$

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Test result:

Germshield Test Result

Sample Name	Test Strain	Test Time	Average Microbe Count (CFU/mL)		Bacterial Killing Rate (%)
Air Purifier	<i>Staphylococcus albus</i> (8032)	0h	C _{0h}	4.11×10^7	—
		1h	C _{1h}	8.28×10^6	79.85%
		2h	C _{2h}	2.01×10^6	95.11%
		3h	C _{3h}	9.30×10^5	97.74%

Important

1. The test report is invalid without the official stamp of CVC;
2. Any part photocopies of the test report are forbidden without the written permission from CVC;
3. The test report is invalid without the signatures of Author and Reviewer;
4. The test report is invalid if altered;
5. Objections to the test report must be submitted to CVC within 15 days;
6. Generally, commission test is responsible for the tested samples only;
7. As for the test result, “—” or “N” means “not applicable”, “ / ” means “not testing”, “P” means “pass” and “F” means “fail”.

The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

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