

广州市微生物研究所

GUANG ZHOU INSTITUTE OF MICROBIOLOGY

检测报告


TEST REPORT



Report Number	KJ20192715
Name of Sample	Caleb AOP Device
Applicant	Shenzhen Caleb technology co. LTD

GUANG ZHOU INSTITUTE OF MICROBIOLOGY
TEST REPORT

Date Received: Dec. 01, 2019
Date Analyzed: Dec. 03, 2019

Name of Sample	Caleb AOP Device	Source of Sample	Delivery
Applicant	Shenzhen Caleb technology co. LTD	Client	Du Guodong
Manufacturer	----	Brand	----
Type and Specification	WADU-02	Quantity of Sample	1Set (24 PCs)
Date of Production	----	State of Sample	Machine
Batch Number	----	Packing of Sample	In box
Sample Picture			
Standard and Methods	<Technical Standard For disinfection>2002-2.1.3 Air disinfection effect evaluation test		
Items of Analysis	Field test of air disinfection effect		
Remarks	<p>Note 1: The sampling hospital is the second people's hospital of guangdong province.</p> <p>Note 2: The size of the ICU was 600m², about 1800m³, with 4 independent cubicles, 17 patient beds, 2 unattended beds, and about 30 medical staff.</p> <p>Note 3: According to the medical staff, the Windows will be opened for ventilation around 4pm every day, and family members will visit regularly.</p> <p>Note 4: The field test conditions are too complicated and there are many influencing factors. The data of this test only correspond to the state of the day.</p>		

To be continued

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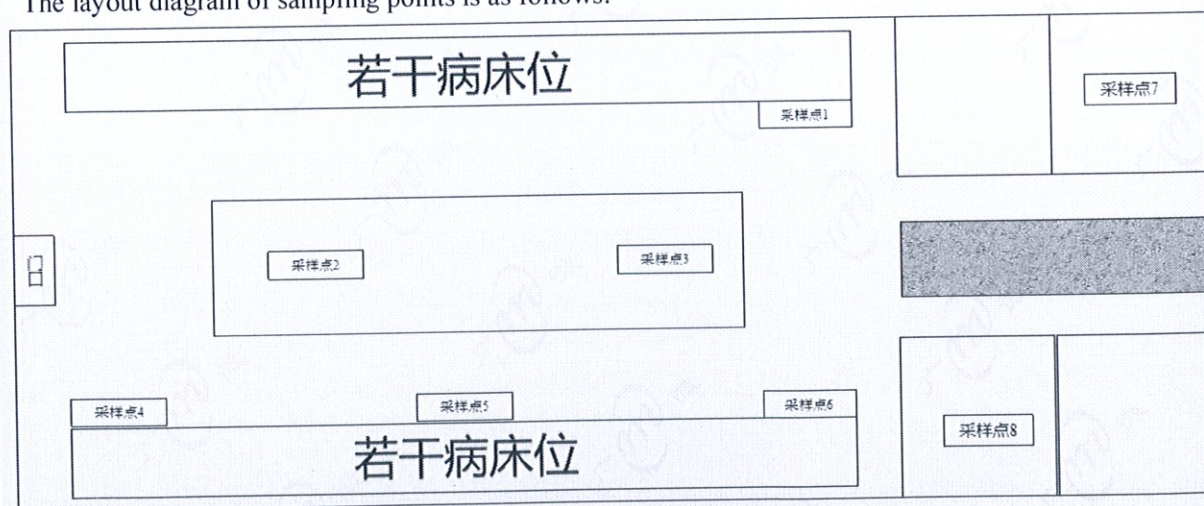
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Test Method for Air Purifier on Airborne Bacteria (Field Test):

1. Test equipments:
 - 1) Culture media :NA
 - 2) Sampling equipment:six-stage sieve sampler
 - 3) Test site: The ICU ward of this test consisted of a large room and four independent compartments, with a total space of about 1800 m³
2. Operation conditions of the air purifier
Set the switch to position“The highest wind speed”.
3. Test Procedure
 - 1) Before sampling, evenly distribute 24 Caleb AOP Device machines in the ICU ward and close the disinfection system in the ward for over 2h.
 - 2) Close the doors and Windows, and select 8 representative points to be sampled with six-level sieve air impingement sampler as pre-test samples (positive control).
 - 3) After the completion of sampling, the Caleb AOP Device was opened and closed after 24 hours of continuous operation. At the same time, the six-sifter air impingement sampler was used for sampling as the test sample after the test.
 - 4) The sampler is placed at a height of 1.0m in the middle of the room, and the collected samples are timely placed in the incubator for culture.
 - 5) Choose 2 NA plates (the same batch) as the negative control, and culture them on the same condition as the samples.
4. Computational formula

$$K_t(\%) = \frac{V_0 - V_t}{V_0} \times 100$$

where: V_0 = Original Bacteria Count; V_t = Bacteria Count after Treatment.
5. The layout diagram of sampling points is as follows:



*** To be continued ***

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6. Test results

Test time (h)	Sampling location	Original Bacteria Count V_0 (cfu/m ³)	Bacteria Count after Treatment V_t (cfu/m ³)	Death rate K_t (%)
24	Sample point 1	2.56×10^2	80	68.75
	Sample point 2	1.44×10^2	40	72.22
	Sample point 3	2.08×10^2	48	76.92
	Sample point 4	2.88×10^2	64	77.78
	Sample point 5	2.24×10^2	64	71.43
	Sample point 6	2.16×10^2	64	70.37
	Sample point 7	2.56×10^2	56	78.13
	Sample point 8	2.40×10^2	56	76.67

End of report

Editor 黄东浪 Checker 黄永良 Issuer 杨平 Date Reported



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