

Report No. :JKK24060068A(E)

Report Date : 2024/07/18

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# TEST REPORT



中国认可  
国际互认  
检测  
TESTING  
CNAS L7673

201819000873

Applicant : CARAVAN EXPRESS SRL  
Address : Republic of MOLDOVA, Chisinau city, Decebal Boulevard 76, postal code MD-2038

The following merchandise was (were) submitted and identified by the client as:

Name of Sample : Bactericidal air recirculator  
Test Type : Commission  
Sample Quantity : 1 PC  
Model : RBI 100 - 1200  
Production date or batch No. : 2024-6-3  
Brand : ALICOM  
Manufacturer: CARAVAN EXPRESS SRL  
Sample Received : 2024/06/24  
Test Period : 2024/06/25 – 2024/07/04  
Test Items : Please refer to next page(s).  
Test Method : Please refer to next page(s).  
Test Result : Please refer to next page(s).  
Sample Description : Medical device  
Note: Recommended for medical, pre-school and school Institutions.

Edited by: 黄婉晶

Approved by: [Signature]

Checked by: [Signature]

Official Seal: [Red Seal: 检验检测专用章]

**TEST RESULTS(1):**

**Table 1 Summary of test results**

Chapter	Test Item(s)	Unit	Test Result(s)	Limiting Value	Test Method(s)		
5.3.1	Removal rate (Field test)	Natural microbe	%	120 min	93.18	≥50%	GB/T 18801-2022
					91.04		
					92.30		
	Removal rate	<i>Staphylococcus aureus</i>	%	120 min	99.98		
					<i>Aspergillus niger</i>		

\*\*\*\*\*TO BE CONTINUED\*\*\*\*\*

检测

**TEST RESULTS(2):**

**Table 2 Test data of sterilizing function evaluation of air cleaner (Field test)**

Test microorganism	Test time (min)	Test number	Colony count before test $V_0$ (CFU/m <sup>3</sup> )	Colony count after test $V_t$ (CFU/m <sup>3</sup> )	Removal rate $K_t$ (%)
Natural microbe	120	1	2.33×10 <sup>3</sup>	1.59×10 <sup>2</sup>	93.18
		2	2.01×10 <sup>3</sup>	1.80×10 <sup>2</sup>	91.04
		3	1.74×10 <sup>3</sup>	1.34×10 <sup>2</sup>	92.30

**Inspection instructions:**

- Test method  
GB 21551.3-2010 Antibacterial and cleaning function for household and similar electrical appliances-Particular requirement of air cleaner (Annex A)
- Test conditions
  - Environment temperature:(22~26)°C
  - Environment humidity:(58~62)%RH
- Test equipment
  - Test chamber: Empty confined room about 30 m<sup>3</sup>
  - Culture media: NA
  - Sampler: six-stage sieve sampler
- Operation conditions of the machine  
Set the switch to position"Maximum Wind Speed".
- Computational formula  
Removal rate  $K_t(\%) = \frac{V_0 - V_t}{V_0} \times 100$   
where:  $V_0$  = Colony count before test;  $V_t$  = Colony count after test.

\*\*\*\*\*TO BE CONTINUED \*\*\*\*\*

**TEST RESULTS(3):**
**Table 3 Test data of sterilizing function evaluation of air cleaner**

Test bacteria	Test time (min)	Test number	Control group		Test group		Removal rate $K_t$ (%)
			Colony count before test $V_0$ (CFU/m <sup>3</sup> )	Colony count after test $V_t$ (CFU/m <sup>3</sup> )	Colony count before test $V_1$ (CFU/m <sup>3</sup> )	Colony count after test $V_2$ (CFU/m <sup>3</sup> )	
<i>Staphylococcus aureus</i>	120	1	1.18×10 <sup>5</sup>	6.20×10 <sup>4</sup>	1.08×10 <sup>5</sup>	12	99.98
		2	1.09×10 <sup>5</sup>	5.81×10 <sup>4</sup>	1.16×10 <sup>5</sup>	18	99.97
		3	1.22×10 <sup>5</sup>	6.28×10 <sup>4</sup>	1.13×10 <sup>5</sup>	12	99.98
		Mean					99.98
<i>Aspergillus niger</i>	120	1	1.04×10 <sup>5</sup>	5.09×10 <sup>4</sup>	1.10×10 <sup>5</sup>	30	99.94
		2	1.00×10 <sup>5</sup>	4.79×10 <sup>4</sup>	1.07×10 <sup>5</sup>	30	99.94
		3	1.09×10 <sup>5</sup>	5.36×10 <sup>4</sup>	1.02×10 <sup>5</sup>	41	99.92
		Mean					99.93

**Inspection instructions:**

- Test method  
GB 21551.3-2010 Antibacterial and cleaning function for household and similar electrical appliances- Particular requirement of air cleaner (Annex A)
- Test microorganism  
*Staphylococcus aureus* ATCC 6538, *Aspergillus niger* ATCC 16404
- Test conditions  
1) Environment temperature:(20~25)°C  
2) Environment humidity:(50~70) %RH
- Test equipment  
Test chamber (30 m<sup>3</sup>), six-stage sieve sampler (FA-1), Microbial aerosol generator, NA, SDA
- Operation conditions of the machine  
Set the switch to position"Maximum Wind Speed".
- Computational formula

$$\text{Natural decay rate } N_t(\%) = \frac{V_0 - V_t}{V_0} \times 100$$

where:  $V_0$  = Colony count before test of control group;  $V_t$  = Colony count after test of control group

$$\text{Removal rate } K_t(\%) = \frac{V_1 \times (1 - N_t) - V_2}{V_1 \times (1 - N_t)} \times 100$$

where:  $V_1$  = Colony count before test of test group;  $V_2$  = Colony count after test of test group.

\*\*\*\*\* **END OF REPORT** \*\*\*\*\*

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