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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 ³)	Colony count after test V_t (CFU/m ³)	Removal rate K_t (%)
Natural microbe	120	1	2.33×10 ³	1.59×10 ²	93.18
		2	2.01×10 ³	1.80×10 ²	91.04
		3	1.74×10 ³	1.34×10 ²	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 m³
 - 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 ³)	Colony count after test V_t (CFU/m ³)	Colony count before test V_1 (CFU/m ³)	Colony count after test V_2 (CFU/m ³)	
<i>Staphylococcus aureus</i>	120	1	1.18×10 ⁵	6.20×10 ⁴	1.08×10 ⁵	12	99.98
		2	1.09×10 ⁵	5.81×10 ⁴	1.16×10 ⁵	18	99.97
		3	1.22×10 ⁵	6.28×10 ⁴	1.13×10 ⁵	12	99.98
		Mean					99.98
<i>Aspergillus niger</i>	120	1	1.04×10 ⁵	5.09×10 ⁴	1.10×10 ⁵	30	99.94
		2	1.00×10 ⁵	4.79×10 ⁴	1.07×10 ⁵	30	99.94
		3	1.09×10 ⁵	5.36×10 ⁴	1.02×10 ⁵	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 m³), 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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