



中科检测技术服务（广州）股份有限公司  
CAS Testing Technical Services (GuangZhou) Co.,Ltd.

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中国认可  
国际互认  
检测  
TESTING  
CNAS L7673

# TEST REPORT

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 : 2025/08/11  
Test Period : 2025/08/15 – 2025/08/17  
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 : Machine  
Note: /

Edited by: 李丽

Checked by: 刘海生

Approved by: 王伟

Official Seal:

**TEST RESULTS:****Table 1 Summary of test results**

Chapter	Test Item(s)		Unit	Test Result(s)		Limiting value	Test Method(s)
5.3.1	Bacteria removal rate	<i>Klebsiella pneumoniae</i>	%	120 min	99.98	≥50%	GB/T 18801-2022

**Table 2 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/m³)	Colony count after test $V_t$ (CFU/m³)	Colony count before test $V_1$ (CFU/m³)	Colony count after test $V_2$ (CFU/m³)	
<i>Klebsiella pneumoniae</i>	120	1	$8.55 \times 10^4$	$4.06 \times 10^4$	$9.33 \times 10^4$	12	99.97
		2	$9.71 \times 10^4$	$4.34 \times 10^4$	$9.94 \times 10^4$	12	99.97
		3	$9.04 \times 10^4$	$4.54 \times 10^4$	$8.76 \times 10^4$	6	99.99
		Mean					99.98

## Inspection instructions:

1. Test method  
GB 21551.3-2010 Antibacterial and cleaning function for household and similar electrical appliances- Particular requirement of air cleaner (Annex A)
2. Test microorganism  
*Klebsiella pneumoniae* ATCC4352
3. Test conditions
  - 1) Environment temperature:(20~25)°C
  - 2) Environment humidity:(50~70) %RH
4. Test equipment  
Test chamber (30 m³), six-stage sieve sampler (FA-1), Microbial aerosol generator, NA
5. Operation conditions of the machine  
Set the switch to position "Maximum Wind Speed".
6. 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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