



201819000873

# TEST REPORT



中国认可  
国际互认  
检测  
TESTING  
CNAS L7673

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 : 2024/07/04 – 2024/07/15  
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: 叶智坚

Official Seal: [Red Seal: 中科检测技术服务(广州)股份有限公司 检验检测专用章]

**TEST RESULT:**
**Table 1 Test data of virus removal**

Virus strain	Test time (min)	Test No.	Control group		Test group		Removal rate $K_t$ (%)	Average (%)
			0 min $V_0$ (TCID <sub>50</sub> /m <sup>3</sup> )	60 min $V_1$ (TCID <sub>50</sub> /m <sup>3</sup> )	0 min $V_1$ (TCID <sub>50</sub> /m <sup>3</sup> )	60 min $V_2$ (TCID <sub>50</sub> /m <sup>3</sup> )		
Rotavirus	60	1	$1.03 \times 10^7$	$1.77 \times 10^6$	$1.40 \times 10^7$	$8.66 \times 10^3$	99.64	99.65
		2	$8.65 \times 10^6$	$1.77 \times 10^6$	$1.70 \times 10^7$	$1.41 \times 10^4$	99.60	
		3	$1.69 \times 10^7$	$2.22 \times 10^6$	$1.14 \times 10^7$	$4.44 \times 10^3$	99.70	
	Release value after test chamber removal(PFU/m <sup>3</sup> )					ND		

**Remark: ND = Not detected**

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

**Table 2 Inspection instructions**

1. Test method  
GB/T 18801-2022 Air cleaner (Annex H)
2. Test item  
Virus strain: Rotavirus (VR-2018)  
Cell: Vero cell
3. Test equipment  
Test chamber (30 m<sup>3</sup> for the virus removal test, 3m<sup>3</sup> for the evaluation of secondary pollution by simulation),  
Sampling pump, Aerosol generator, Liquid impingement sampler
4. Test condition
  - 1) Environment temperature: (20~25) °C
  - 2) Environment humidity: (50~70)%RH
5. Operation conditions of the machine  
Set the switch to position "Maximum Wind Speed".
6. Test procedure
  - 1) To test the virus titer of the returned sample, follow the following steps:
    - a) 10 times dilute the recovered liquid;
    - b) Dilute solution was added to a 96-well cell culture plate containing cells grown into monolayers, and a negative control group was set up and an equal amount of culture solution was added;
    - c) After incubation at 37°C and 5%CO<sub>2</sub> for 120 min, the supernatant was discarded, and the maintenance culture medium containing double antibody (Final concentration:100U/mL Penicillin and 100 μg/mL Streptomycin) was added for 3~5 days, and the cell growth was observed every day;
    - d) When the cells inoculated with the virus appear to become round or shrink, the occurrence of cytopathic changes was recorded;
    - e) Viral titers were calculated by the Reed-Muench method and expressed as TCID<sub>50</sub>;
  - 2) Calculate the virus titer and the removal rate, and this experiment repeated 3 times.
7. Computational formula

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

$N_r$  - Natural decay rate(%) Keep two decimal places

$V_0$  - the original virus titer of control group(TCID<sub>50</sub>/m<sup>3</sup>)

$V_r$  - the final virus titer of control group(TCID<sub>50</sub>/m<sup>3</sup>)

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

$K_r$  - Removal rate(%) Keep two decimal places

$V_1$  - the original virus titer of test group (TCID<sub>50</sub>/m<sup>3</sup>)

$V_2$  - the final virus titer of test group (TCID<sub>50</sub>/m<sup>3</sup>)

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

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