



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.

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Official Seal: 检验检测专用章

Report No. : JKK24060068B(E)

Report Date : 2024/07/18

Page No. : 2 of 4

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 ₅₀ /m ³)	60 min V_t (TCID ₅₀ /m ³)	0 min V_1 (TCID ₅₀ /m ³)	60 min V_2 (TCID ₅₀ /m ³)		
Rotavirus	60	1	1.03×10^7	1.77×10^6	1.40×10^7	8.66×10^3	99.64	99.65
		2	8.65×10^6	1.77×10^6	1.70×10^7	1.41×10^4	99.60	
		3	1.69×10^7	2.22×10^6	1.14×10^7	4.44×10^3	99.70	
	Release value after test chamber removal(PFU/m ³)				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 m³ for the virus removal test, 3m³ 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%CO₂ 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 TCID₅₀;
 - 2) Calculate the virus titer and the removal rate, and this experiment repeated 3 times.
7. Computational formula

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

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

V_0 - the original virus titer of control group (TCID₅₀/m³)

V_t - the final virus titer of control group (TCID₅₀/m³)

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

K_t - Removal rate(%) Keep two decimal places

V_1 - the original virus titer of test group (TCID₅₀/m³)

V_2 - the final virus titer of test group (TCID₅₀/m³)

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

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