



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 : 2025/08/11
Test Period : 2025/08/19 – 2025/08/28
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 陆 岩

Approved by: [Signature]

Checked by: [Signature]

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 RESULTS:

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)		
H1N1	60	1	1.69×10 ⁷	5.71×10 ⁶	2.91×10 ⁷	2.80×10 ⁵	97.14	97.60
		2	1.14×10 ⁷	3.52×10 ⁶	2.22×10 ⁷	1.19×10 ⁵	98.26	
		3	1.03×10 ⁷	2.91×10 ⁶	2.80×10 ⁷	2.06×10 ⁵	97.39	

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

检测

Table 2 Inspection instructions

1. Test method	GB/T 18801-2022 Air cleaner (Annex H)
2. Test item	Virus strain: H1N1 (VR-1469) Cell: MDCK cell
3. Test equipment	Test chamber (30 m ³), Aerosol generator, Liquid impingement sampler etc.
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 35 °C and 5%CO ₂ 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 ₅₀ ; 2) Calculate the virus titer and the removal rate, and this experiment repeated 3 times.
7. Computational formula	<p>Natural decay rate $N_i(\%) = \frac{V_0 - V_i}{V_0} \times 100$</p> <p>$N_i$ - Natural decay rate(%) Keep two decimal places V_0 - the original virus titer of control group(TCID₅₀/m³) V_i - the final virus titer of control group(TCID₅₀/m³)</p> <p>Removal rate $K_i(\%) = \frac{V_1 \times (1 - N_i) - V_2}{V_1 \times (1 - N_i)} \times 100$</p> <p>$K_i$ - 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)</p>

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

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