



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: 叶智星

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 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		
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

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

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

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

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

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

K_r - Removal rate(%) Keep two decimal places

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

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

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

Statement

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2. This report is invalid if not affixed with authorized stamp of test and paging seal.
3. This report is invalid without signature of editor, verifier and approver.
4. This report is invalid if being supplemented, deleted or altered.
5. Without written permission of our Company, this report can not be reproduced in part (except in whole).
6. The result(s) shown in this report refer only to the sample(s) tested.
7. Objections to this report must be submitted to our Company within 15 days. Otherwise, it will automatically deem to have accepted this report.
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