



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: 检验检测专用章

Report No.: JKK24060068B(E)

Report Date : 2024/07/18

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**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 $V_t$ (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

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

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

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

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

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

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

$V_1$  - the original virus titer of test group (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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