

廣州市微生物研究所

GUANG ZHOU INSTITUTE OF MICROBIOLOGY

檢測報告

TEST REPORT

| | |
|----------------|-----------------------------|
| Report Number | KY20200578 |
| Name of Sample | Air Purifier |
| Applicant | Aether Services Taiwan LTD. |

GUANG ZHOU INSTITUTE OF MICROBIOLOGY
TEST REPORT

Date Received: Jul. 16, 2020
Date Analyzed: Jul. 28, 2020

| | | | |
|------------------------|---|--------------------|--------------|
| Name of Sample | Air Purifier | Source of Sample | Delivery |
| Applicant | Aether Services Taiwan LTD. | Client | Cai Chengjia |
| Manufacturer | Aether Services Taiwan LTD. | Brand | BRISE |
| Type and Specification | S1 | Quantity of Sample | 1PC |
| Date of Production | 2020.05 | State of Sample | Machine |
| Batch Number | --- | Packing of Sample | In box |
| Standard and Methods | 1. Referring to GB/T 18801-2015 Air cleaner 2. Referring to <Technical Standard For Disinfection> 2002-2.1.3 Air disinfection effect evaluation test | | |
| Items of Analysis | Removal Rate (<i>Influenza A virus A/PR8/34 H1N1</i> , <i>Enterovirus EV71</i>) | | |
| Remarks | --- | | |

To be continued

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Test Method for Purification Effect of Airborne Virus Aerosols

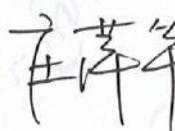

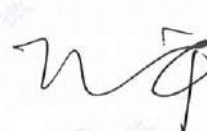
1. Test Equipment
 - 1) Strain: *Influenza A virus* A/PR8/34 H1N1, *Enterovirus* EV71
 - 2) Cells: MDCK and Vero
2. Test Conditions
 - 1) Environment temperature: (23~25) °C
 - 2) Environment relative humidity: (50~60) %
 - 3) Test time: 60 min
 - 4) The volume of the test chamber: 10 m³
 - 5) Machine setting: "The highest wind speed".

Test Results

| Test Time (min) | Virus | Test Number | Virus Titer of Control Group | | | Virus Titer of Test Group | | Removal Rate (%) |
|-----------------|-----------------|-------------|--|---|------------------------|--|---|------------------|
| | | | Original Concentration (TCID ₅₀ /m ³) | Final Concentration (TCID ₅₀ /m ³) | Natural Decay Rate (%) | Original Concentration (TCID ₅₀ /m ³) | Final Concentration (TCID ₅₀ /m ³) | |
| 60 | A/PR8/34 (H1N1) | 1 | 1.81×10 ⁶ | 3.69×10 ⁵ | 79.6 | 2.49×10 ⁶ | / | ≥99.9 |
| | | 2 | 1.17×10 ⁶ | 1.81×10 ⁵ | 84.5 | 1.98×10 ⁶ | / | ≥99.9 |
| | | 3 | 2.49×10 ⁶ | 5.85×10 ⁵ | 76.5 | 3.69×10 ⁶ | / | ≥99.9 |
| | EV71 | 1 | 1.17×10 ⁶ | 3.69×10 ⁵ | 68.5 | 1.17×10 ⁶ | 2.50×10 ⁴ | 93.2 |
| | | 2 | 2.49×10 ⁶ | 7.03×10 ⁵ | 71.8 | 1.98×10 ⁶ | 5.46×10 ⁴ | 90.2 |
| | | 3 | 5.46×10 ⁶ | 1.81×10 ⁶ | 66.8 | 3.69×10 ⁶ | 7.04×10 ⁴ | 94.3 |

Note: "/" means not detected.

*** End of report***

Editor  Checker  Issuer  Date Reported



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Contact Address, NO.1Jiantashan Road · Huangpu District · Guangzhou City · Guangdong Province

Test Address, (only fill in when it's different from the contact address)

Postal Code, 510663

Tel., (8620)61302671

URL, <http://www.ggtest.com.cn>