



中国认可  
国际互认  
检测  
TESTING  
CNAS L0823



201719001121

# 广州市微生物研究所

GUANG ZHOU INSTITUTE OF MICROBIOLOGY

## 检测报告

TEST REPORT

Report Number

KY20190034

Name of Sample

Air Purifier

Applicant

Eureka Forbes Ltd.





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Test No. KY20190034

GUANG ZHOU INSTITUTE OF MICROBIOLOGY  
TEST REPORT

Date Received: May 10, 2019

Date Analyzed: May 15, 2019

Name of Sample	Air Purifier	Source of Sample	Delivery
Applicant	Eureka Forbes Ltd.	Client	Anil Kumar
Manufacturer	Eureka Forbes Ltd.	Brand	Dr. Aeroguard
Type and Specification	Dr. Aeroguard SCPR 660 H	Quantity of Sample	1PC
Date of Production	---	State of Sample	Machine
Batch Number	---	Packing of Sample	In box
Sample Picture			
Standard and Methods	1. GB/T 18801-2015 Air cleaner 2. Refer to <Technical Standard For Disinfection> 2002-2.1.3 Air disinfection effect evaluation test		
Items of Analysis	1. CADR (Particulate) 2. *Purification Effect of Airborne Virus Aerosol ( <i>Influenza A virus A/PR8/34 H1N1</i> )		
Remarks	The client claims that: 1. Dr. Aeroguard SCPR 660 H/Aeroguard Pro 1000 H, both are same products with same features. Different name has given for different divisions. 2. Product (remove sample) uses ULTRA HIGH DEFINITION HEPA-UHD HEPA.		

\*\*\*To be continued\*\*\*



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**Method for Measuring Clean Air Delivery Rate of Particulate:**

1. Test Object  
Particulate ( $\geq 0.3 \mu\text{m}$ )
2. Test Conditions:
  - 1) Environment temperature:  $(25 \pm 2) ^\circ\text{C}$
  - 2) Environment humidity:  $(50 \pm 10) \% \text{RH}$
3. Test Equipment  
Test chamber ( $30 \text{ m}^3$ ), Particle Detector (SX-L301N)
4. Operational Conditions of the Machine  
Set the switch to position "The highest gear".
5. Test Procedure
  - 1) Place the air cleaner to be tested in the test chamber in accordance with standard request and set the air cleaner controls to the conditions for test. Test for proper operation, then turn off the air cleaner.
  - 2) Using the test chamber HEPA filter, allow the test chamber air to clean until the background concentration in the size range of  $0.3 \mu\text{m}$  to  $10 \mu\text{m}$  reaches a concentration of less than 1000 particles/L. Simultaneously operate the environmental control devices until the test chamber conditions have reached the requirements.
  - 3) When an acceptable test chamber background concentration is achieved record the background concentration, turn off the test chamber environmental control system.
  - 4) Immediately light, then place one standard cigarette in the cigarette smoke generator, seal generator, open valve to chamber, to provide the required initial concentration ( $2 \times 10^6 \sim 2 \times 10^7$  particles/L). Turn off air supply and close test chamber valve. Mix cigarette smoke for ten minutes after the initial concentration has been reached.
  - 5) Turn off ceiling mixing fan, begin to acquire the cigarette smoke particulate concentration. This test point is the initial concentration ( $C_0$ ).
  - 6) Open the air cleaner and start the test as soon as the initial concentration of particulate matter is completed. Collect samples at 2min intervals for 20 min.
  - 7) Test the natural decay according to the steps 1) ~ 6) , except that the air cleaner is unoperated.
6. Computational Formula  

$$\text{CADR } Q (\text{m}^3 / \text{h}) = 60 \times (k_e - k_n) \times V$$

Where:  $k_e$  = total decay constant;  $k_n$  = natural decay constant;  $V$  = volume of the test chamber,  $\text{m}^3$

**Test Results**

Number of Sample	Pollutant	Natural Decay Constant	Total Decay Constant	CADR
		$k_n$ ( $\text{min}^{-1}$ )	$k_e$ ( $\text{min}^{-1}$ )	$Q$ ( $\text{m}^3/\text{h}$ )
KJ20190034-1	Particulate	0.0025	0.2355	419.4

\*\*\*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
  - 2) Cells: MDCK
2. Test Conditions
  - 1) Environment temperature: (23~25) °C
  - 2) Environment relative humidity: (50~60) %
  - 3) Test time: 60min
  - 4) The volume of the test chamber: 30 m<sup>3</sup>
  - 5) Machine setting: "The highest gear".

Test Results

Number of Sample	Virus	Test Number	Control Group			Test Group		
			0 min (TCID <sub>50</sub> /m <sup>3</sup> )	60 min (TCID <sub>50</sub> /m <sup>3</sup> )	Natural Decay Rate (%)	0 min (TCID <sub>50</sub> /m <sup>3</sup> )	60 min (TCID <sub>50</sub> /m <sup>3</sup> )	Purification Rate (%)
KY20190034-1	A/PR8/34 (H1N1)	1	3.42×10 <sup>5</sup>	7.47×10 <sup>4</sup>	78.16	5.06×10 <sup>5</sup>	/	≥99.99
		2	5.06×10 <sup>6</sup>	7.47×10 <sup>4</sup>	85.24	5.06×10 <sup>5</sup>	/	≥99.99
		3	1.60×10 <sup>5</sup>	3.41×10 <sup>4</sup>	78.69	1.60×10 <sup>5</sup>	/	≥99.99

Note: "/" means not detected.

\*\*\* End of report\*\*\*

Editor

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