



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.





中国认可
国际互认
检测
TESTING
CNAS L0823



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



Test No. KY20190034

GUANG ZHOU INSTITUTE OF MICROBIOLOGY

TEST REPORT

Date Received: May 10, 2019

Date Analyzed: May 15, 2019

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 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, m^3

Test Results

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

To be continued



中国认可
国际互认
检测
TESTING
CNAS L0823



Test No. KY20190034

GUANG ZHOU INSTITUTE OF MICROBIOLOGY

TEST REPORT

Date Received: May 10, 2019

Date Analyzed: May 15, 2019

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 m³
 - 5) Machine setting: "The highest gear".

Test Results

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

Note: "/" means not detected.

*** End of report***

Editor

陈华

Checker

黄永良

Issuer

陈华

Date Reported





中国认可
国际互认
检测
TESTING
CNAS L0823



Statements

1. The report would be invalid under the following conditions: altered, added, deleted, copied, without the special seal for inspection or signatures by approver.
2. For the received sample, the sample information in the report is claimed by the applicant, the inspection unit is not responsible for its authenticity. The report is responsibility for the received sample only.
3. If there is any objection to the inspection report, it should be presented to the inspection unit within 15 working days from the issuance date, otherwise the report shall be deemed as having been accepted. Microbiological item is not subjected to retest.
4. The report and the name of the inspection unit shall not be used for product labels, advertisements, awards and merchandise publicity.。
5. The items marked with “*” in the report are not accredited by CNAS or CMA, The items marked with “#” are accredited by CNAS, The items marked with “+” are accredited by CMA.
6. The test data and results of items which are not accredited by CMA, only used as scientific research, teaching or internal quality control.
7. Any ambiguity by the language which used in the report, the Chinese shall prevail.

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>