



Test Report

No: GZCPCH200502490E

Date: 2020-07-02

Client name: Healthy Air Technology Ltd
 Client address: South Park Road, Oxford Oxfordshire, UK OX1 3QR

Sample name: Air Purifier
 Batch No./Date: 20200508
 Manufacturer: Healthy Air Technology Ltd

Above sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS job No.: GZCPCH200502490
 Date of receipt: 2020-05-20
 Testing period: 2020-05-20~2020-06-29

TEST(S) REQUESTED:
 Selected test(s) as requested by applicant:
 Please refer to next page(s).

TEST METHOD(S):
 Please refer to next page(s).

TEST RESULT(S):
 Please refer to next page(s).

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 Signed for and on behalf of SGS



Authorized Signature
 Denny Li

scan to see the report



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TEST(S) REQUESTED:

Determination of antiviral activity (Influenza A virus, 1 Hours)*

TEST METHOD(S):

With reference to GB/T21551.3 and Technical Standards for Disinfection (2002)

1. Materials

- 1) Virus: Influenza A virus (A/PR8/34(H1N1))
- 2) Cell: MDCK cell

2. Test conditions

- 1) Temperature: 23 ~ 25 °C
- 2) Relative humidity: 50 ~ 60%
- 3) Contact time: 60 minutes
- 4) Cabin volume: 30 m³
- 5) Sample setting: maximum wind speed

3. Procedures:

- 1) Adjust the temperature and relative humidity of the experimental cabins according to the requirements. Putting the relative equipment into the cabin and then closed the door.
- 2) Turn on the aerosol generator to atomize influenza virus, after atomizing the virus, stir and mix well, and stand for a little time. The liquid impingement sampler was used to sample the cabin of control group and testing group before purification. Purification was carried out in the experimental cabin, and the control group cabin used as control.
- 3) Samples were taken from the cabins of testing group and control group after exposed to the virus for 60 minutes. The experiment shall be repeated three times.
- 4) Gradient dilution method was used for the recovery solution. The diluent was added to the MDCK cells culture plate, and then culture medium added to continue incubate for 3-5 days. observed the cell growth condition everyday, recorded the pathological changes when MDCK cells became round and shrunken. Using Reed Muench formula to calculate TCID₅₀, and then virus titer and clearance of samples.

TEST RESULT(S):

Virus	Test	Virus titer of control groups			Virus titer of testing groups		
		0min (TCID ₅₀ /m ³)	60min (TCID ₅₀ /m ³)	Natural decay rate (%)	0min (TCID ₅₀ /m ³)	60min (TCID ₅₀ /m ³)	Clearance (%)
Influenza virus A/PR8/34 (H1N1)	1	1.81×10 ⁶	2.49×10 ⁵	86.24	1.17×10 ⁶	/	≥99.9
	2	2.49×10 ⁶	5.46×10 ⁵	78.07	7.89×10 ⁵	/	≥99.9
	3	3.69×10 ⁶	7.03×10 ⁵	80.95	2.49×10 ⁶	/	≥99.9

"/" means Not Detected

Remark: *Test was carried out by external laboratory assessed as competent.



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SAMPLE DESCRIPTION: Equipment

Photo Appendix



*** End of Report***

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