

广州市微生物研究所有限公司
GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

检测报告
TEST REPORT

Report Number

KJ20204822

Name of Sample

Smart Air Purifier Filter Material

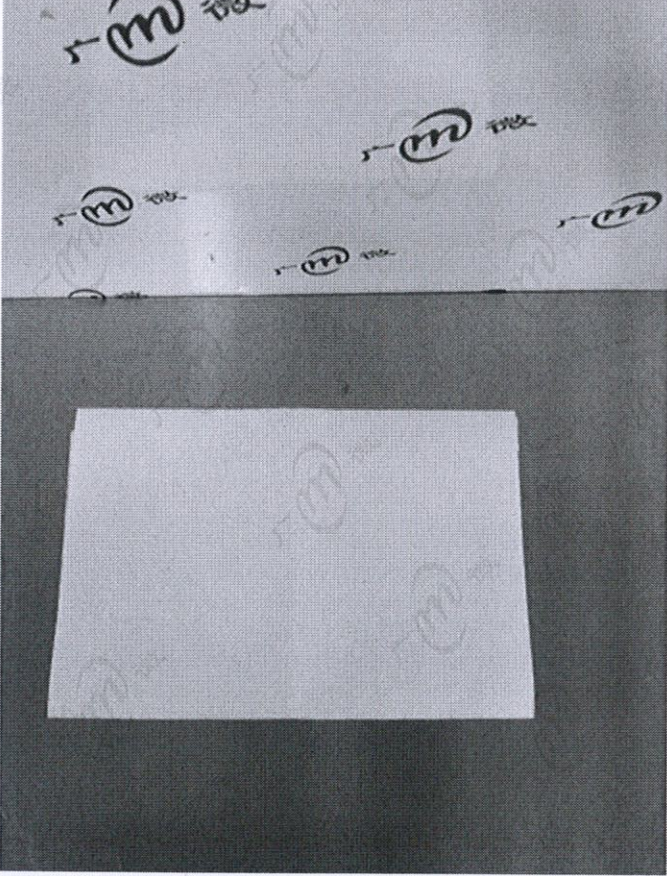
Applicant

Unclaro GmbH

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.
TEST REPORT

Date Received: Dec. 23, 2020

Date Analyzed: Jan. 08, 2020

Name of Sample	Smart Air Purifier Filter Material	Source of Sample	Delivery
Applicant	Unclaro GmbH	Client	Chen Meifang
Manufacturer	---	Brand	---
Type and Specification	LH600-PC	Quantity of Sample	1 set
Date of Production	---	State of Sample	Filter Material
Batch Number	---	Packing of Sample	In Bag
Sample Picture			
Standard and Methods	<ol style="list-style-type: none"> 1. Referring to BS EN ISO 29463-3: 2018 High-efficiency filters and filter media for removing particles in ai – Part 3: Testing flat sheet filter media 2. Referring to BS EN 1822-1:2019 High efficiency air filters (EPA,HEPA and ULPA) 		
Items of Analysis	<ol style="list-style-type: none"> 1. Resistance 2. Efficiency 		
Remarks	---		

To be continued

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.
TEST REPORT

Date Received: Dec. 23, 2020
 Date Analyzed: Jan. 08, 2020

Measurement of Resistance:

1. Test Conditions
 - 1) Environment Temperature: 25.6 °C
 - 2) Environment Humidity: 53%RH
 - 3) Test air velocity: 5.33 cm/s
2. Test Equipment
Aerodynamic Test Platform
3. Test Procedure
 - 1) The visual inspection of the sample should be tested, then install on the air duct according to the standard requirements.
 - 2) Turn aerodynamic test platform to the working state, adjust the temperature to (23 ± 5) °C and the relative humidity less than 75 %.
 - 3) Adjust air velocity and record the pressure drop on both sides of the sample.

Test Results

Number of Sample	Resistance (Pa)
KJ20204822-1	54.3

*** To be continued***

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.
TEST REPORT

Date Received: Dec. 23, 2020
Date Analyzed: Jan. 08, 2020

Measurement of Efficiency:

1. Test Pollutant
DEHS
2. Test Conditions
 - 1) Environment Temperature: 25.6 °C
 - 2) Environment Humidity: 53%RH
 - 3) Test air velocity: 5.33 cm/s
3. Test Equipment
Aerodynamic Test Platform, Aerosol Spectrometer, Aerosol Diluter
4. Test Procedure
 - 1) Turn aerodynamic test platform to the working state, adjust the temperature to (23 ± 5) °C and the relative humidity less than 75 %, and determine the background concentration of upstream and downstream.
 - 2) The sample to be tested is installed on the air duct according to the standard requirements, and the aerosol generator is started.
 - 3) After the concentration of the pollutant is stable, measure the concentration of upstream and downstream pollutants.
5. Computational Formula

$$E (\%) = \left(1 - \frac{A_2}{A_1} \right) \times 100$$

Where

A_1 = upstream particle concentrations, p/m³; A_2 = downstream particle concentrations, p/m³.

Test Results

Number of Sample	Testing Size (μm)	Number of Specimens	Upstream Particulate Concentrations	Downstream Particulate Concentrations	Efficiency
			A_1 (p/m ³)	A_2 (p/m ³)	E (%)
KJ20204822-1	0.1~0.3	1	1.73×10 ⁹	4.49×10 ⁴	99.9974
		2	1.92×10 ⁹	4.89×10 ⁴	99.9975
		3	1.71×10 ⁹	4.36×10 ⁴	99.9975
		4	1.71×10 ⁹	4.51×10 ⁴	99.9974
		5	1.94×10 ⁹	5.04×10 ⁴	99.9974
		Mean	—	—	99.9974

*** End of report***

Editor

张序新

Checker

徐国祥

Issuer

王平

Date Reported



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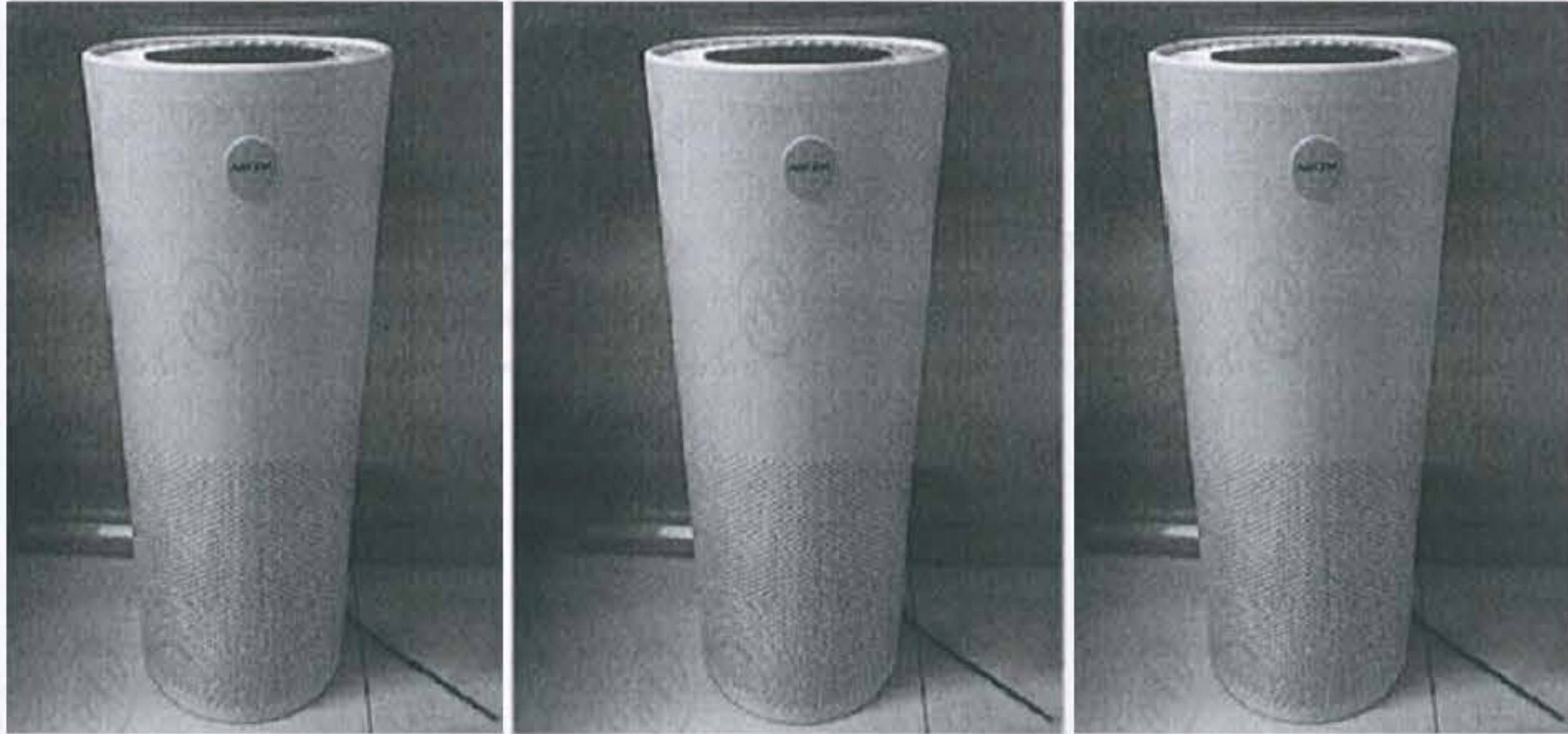
广州市微生物研究所
GUANG ZHOU INSTITUTE OF MICROBIOLOGY

检测报告
TEST REPORT

Report Number	KY20200548
Name of Sample	Lufthero
Applicant	Uniclaro GmbH

**GUANG ZHOU INSTITUTE OF MICROBIOLOGY
TEST REPORT**

Date Received: Jul. 02, 2020
Date Analyzed: Jul. 09, 2020

Name of Sample	Lufthero	Source of Sample	Delivery
Applicant	Uniclaro GmbH	Client	Chen Meifang
Manufacturer	Shenzhen Agcen Environmental Protection Technology Co., Ltd.	Brand	<u>lufthero</u>
Type and Specification	Lufthero-600UV	Quantity of Sample	1 Set (3 PCS)
Date of Production	---	State of Sample	Machine
Batch Number	---	Packing of Sample	In box
Sample Picture			
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>)		
Remarks	---		

To be continued



**GUANG ZHOU INSTITUTE OF MICROBIOLOGY
TEST REPORT**

Date Received: Jul. 02, 2020
Date Analyzed: Jul. 09, 2020

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: 60 min
 - 4) The volume of the test chamber: 30 m³
 - 5) Machine setting: "The highest gear".

Test Results

Virus	Test Time (min)	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)	
A/PR8/34 (H1N1)	60	1	3.69×10 ⁶	7.03×10 ⁵	80.9	5.46×10 ⁶	/	≥99.9
		2	2.49×10 ⁶	5.85×10 ⁵	76.5	1.17×10 ⁶	/	≥99.9
		3	7.89×10 ⁵	1.98×10 ⁵	74.9	3.69×10 ⁶	/	≥99.9

Note: "/" means not detected.

*** End of report***

Editor

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Date Reported

2020.8.14



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