



中国认可  
国际互认  
检测  
TESTING  
CNAS L0823



202019005395



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Guangzhou Institute of Microbiology Group Co., Ltd.

国家空气净化产品质量检验检测中心

National Center of Quality Inspection and Testing on Air Purification Products

# 检测报告

## TEST REPORT

Report Number KJ202401514E

Name of Sample E500/ALANA

Applicant TEQOYA SAS



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**GUANGZHOU INSTITUTE OF MICROBIOLOGY GROUP CO., LTD.**

**NATIONAL CENTER OF QUALITY INSPECTION AND TESTING  
ON AIR PURIFICATION PRODUCTS**

**TEST REPORT**

Date Received: Jul. 02, 2024

Date Analyzed: Jul. 11, 2024

Name of Sample	E500/ALANA	Source of Sample	Delivery
Applicant	TEQOYA SAS	Client	Frederic YEH
Manufacturer	TEQOYA	Brand	TEQOYA
Type and Specification	----	Quantity of Sample	1PC
Date of Production	----	State of Sample	Machine
Batch Number	----	Packing of Sample	In box
Sample Picture			
Standard and Methods	<ol style="list-style-type: none"> <li>&lt;Technical Standard For Disinfection&gt;2002-2.1.3 Air disinfection effect evaluation test</li> <li>GB/T 18801-2022 Air cleaner Appendix H</li> </ol>		
Items of Analysis	<ol style="list-style-type: none"> <li>Field Test of Air Disinfection Effect (Natural bacteria in air)</li> <li>Virus Removal Rate (<i>Influenza A virus A/PR/8/34 H1N1</i>)</li> </ol>		
Remarks	----		

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



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**Method for Testing Air Disinfection:**

1. Test Equipment:
  - 1) Culture media: NA
  - 2) Sampling equipment: FA-1 Air microbe sampler
2. Test Conditions
  - 1) Test space: 20 m<sup>3</sup>
  - 2) Environment temperature: (23.2~23.4) °C
  - 3) Environment humidity: (55~56) % RH
  - 4) Test time: 120 min
  - 5) When sampling, sampling shall be conducted according to the layout of sampling points in FIG. 1, and the sampling equipment shall be placed at the height 1.0 meter. The sampling flow was 28.3 L/min.
3. Operation Conditions of the Machine  
Set the switch to position "The highest wind speed".
4. Computational Formula

$$\text{Death Rate } K_t(\%) = \frac{V_0 - V_t}{V_0} \times 100\%$$

Where: V<sub>0</sub>= The Average Bacterial Count in Air before Disinfection, V<sub>t</sub>= The Average Bacterial Count in Air after Disinfection.

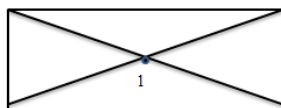


FIG. 1

**Test results**

Number of Sample	Test Time (min)	Test Strain	Test Number	The Average Bacterial Count in Air before Disinfection	The Average Bacterial Count in Air after Disinfection	Death Rate K <sub>t</sub> (%)
				V <sub>0</sub> (cfu/m <sup>3</sup> )	V <sub>t</sub> (cfu/m <sup>3</sup> )	
KJ202401514-1	120	Natural	1	1.20×10 <sup>3</sup>	64	94.67
		Bacteria in Air	2	1.24×10 <sup>3</sup>	57	95.40
			3	1.48×10 <sup>3</sup>	64	95.68

Note: No microorganisms grew in the negative control group.

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



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**Test Method for Removing Virus Performance:**

1. Test Equipment
  - 1) Strain: *Influenza A virus* A/PR/8/34 H1N1
  - 2) Cells: MDCK
2. Test Conditions
  - 1) The volume of the test chamber: 3 m<sup>3</sup>
  - 2) Environment temperature: (20~25) °C
  - 3) Environment humidity: (50~70) % RH
  - 4) Test time: 60 min
3. Operation Conditions of the Machine  
Set the switch to position "The highest wind speed".
4. Computational Formula

$$\text{Natural Decay Rate } N_t(\%) = \frac{V_0 - V_t}{V_0} \times 100\%$$

$$\text{Virus Removal Rate } K_t(\%) = \frac{V_1 \times (1 - N_t) - V_2}{V_1 \times (1 - N_t)} \times 100\%$$

Where:  $V_0$  = Original Virus Concentration of Control Group, TCID<sub>50</sub>/m<sup>3</sup>,  
 $V_t$  = Final Virus Concentration of Control Group, TCID<sub>50</sub>/m<sup>3</sup>,  
 $V_1$  = Original Virus Concentration of Test Group, TCID<sub>50</sub>/m<sup>3</sup>,  
 $V_2$  = Final Virus Concentration of Test Group, TCID<sub>50</sub>/m<sup>3</sup>.

**Test Results**

Test Time (min)	Virus	Test Number	Virus Titer of Control Group			Virus Titer of Test Group		Virus Removal Rate (%)
			Original Concentration (TCID <sub>50</sub> /m <sup>3</sup> )	Final Concentration (TCID <sub>50</sub> /m <sup>3</sup> )	Natural Decay Rate (%)	Original Concentration (TCID <sub>50</sub> /m <sup>3</sup> )	Final Concentration (TCID <sub>50</sub> /m <sup>3</sup> )	
60	H1N1	1	1.88×10 <sup>6</sup>	5.70×10 <sup>5</sup>	69.68	4.73×10 <sup>6</sup>	/	>99.99
		2	2.29×10 <sup>6</sup>	6.32×10 <sup>5</sup>	72.40	1.35×10 <sup>6</sup>	/	>99.99
		3	3.16×10 <sup>6</sup>	9.42×10 <sup>5</sup>	70.19	2.63×10 <sup>6</sup>	/	>99.99
Mean								>99.99

**Note 1:** "/" means not detected.

**Note 2:** The control cells grew normally.

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

Editor

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Checker

庄萍华

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