

Report No. : JKK23010016A

Report Date : 2023/02/14

Page No. : 1 of 5



201819000873

# TEST REPORT



中国认可  
国际互认  
检测  
TESTING  
CNAS L7673

Applicant : Savewo Limited  
Address : 1/F&2/F,266-270 Texaco Road, Tsuen Wan, Hong Kong

The following merchandise was (were) submitted and identified by the client as:

Name of Sample : Savewo air purifier TGP-X1C  
Test Type : Commission  
Sample Quantity : 2PCS  
Model : /  
Batch No. : /  
Brand : Savewo  
Manufacturer: Savewo Limited  
Sample Received : 2023/01/03  
Test Period : 2023/01/04-2023/02/02  
Test Items : Please refer to next page(s).  
Test Method : Please refer to next page(s).  
Test Result : Please refer to next page(s).  
Sample Description : Machine  
Note: /

Edited by: 黄婉婷

Approved by: [Signature]

Checked by: 智望

Official Seal: [Red Seal: 中科检测技术服务(广州)股份有限公司 检验检测专用章]

**TEST RESULTS (1):**

Table 1 Summary of test results						
Chapter	Test Item(s)		Unit	Test Result(s)	Limiting Value	Test Method(s)
5.3	CADR $Q$	Particulate	m <sup>3</sup> /h	413.1	≥90% of nominal value	
5.7	Removal rate (simulated field test)	<i>Staphylococcus albus</i>	%	99.79	≥50%	GB/T18801-2015
		<i>Escherichia coli</i>		99.80		
		<i>Staphylococcus aureus</i>		99.78		
		<i>Klebsiella pneumoniae</i>		99.72		

\*\*\*\*\* TO BE CONTINUED \*\*\*\*\*

**TEST RESULTS (2):**

Table 2 Test data of clean air delivery rate(particulate)			
Test Item	Natural decay constant $k_n$ (min <sup>-1</sup> )	Total decay constant $k_e$ (min <sup>-1</sup> )	CADR $Q$ (m <sup>3</sup> /h)
Particulate	0.0042	0.2337	413.1
Inspection instructions: 1. Test Method GB/T 18801-2015 Air cleaner (Annex B) 2. Test object Particulate (≥0.3 μm) 3. Test conditions: 1) Environment temperature: (25 ± 2) °C 2) Environment humidity: (50 ± 10) %RH 4. Test equipment Test chamber (30 m <sup>3</sup> ), High density particle counter (SX-L301N) 5. Operation conditions of the machine Set the switch to position "Maximum Wind Speed". 6. Computational formula $CADR\ Q\ (m^3/h) = 60 \times (k_e - k_n) \times V$ where: $k_e$ = total decay constant; $k_n$ = natural decay constant; $V$ = volume of the test chamber, m <sup>3</sup>			

\*\*\*\*\* TO BE CONTINUED \*\*\*\*\*

**TEST RESULTS (3):**

Table 3 Test data of removal rate (simulated field test)							
Test bacteria	Test time (min)	Test No.	Control group		Test group		Removal rate $K_t$ (%)
			Colony count before test $V_0$ (cfu/m <sup>3</sup> )	Colony count after test $V_t$ (cfu/m <sup>3</sup> )	Colony count before test $V_1$ (cfu/m <sup>3</sup> )	Colony count after test $V_2$ (cfu/m <sup>3</sup> )	
<i>Staphylococcus albus</i>	60	1	1.20×10 <sup>5</sup>	9.53×10 <sup>4</sup>	1.14×10 <sup>5</sup>	1.94×10 <sup>2</sup>	99.79
		2	1.12×10 <sup>5</sup>	8.80×10 <sup>4</sup>	1.11×10 <sup>5</sup>	1.71×10 <sup>2</sup>	99.80
		3	1.15×10 <sup>5</sup>	8.52×10 <sup>4</sup>	1.10×10 <sup>5</sup>	1.77×10 <sup>2</sup>	99.78
		Mean					99.79
<i>Escherichia coli</i>	60	1	1.09×10 <sup>5</sup>	8.39×10 <sup>4</sup>	1.17×10 <sup>5</sup>	1.65×10 <sup>2</sup>	99.82
		2	1.14×10 <sup>5</sup>	8.52×10 <sup>4</sup>	1.17×10 <sup>5</sup>	1.88×10 <sup>2</sup>	99.79
		3	1.16×10 <sup>5</sup>	8.86×10 <sup>4</sup>	1.12×10 <sup>5</sup>	1.71×10 <sup>2</sup>	99.80
		Mean					99.80
<i>Staphylococcus aureus</i>	60	1	1.12×10 <sup>5</sup>	8.49×10 <sup>4</sup>	1.14×10 <sup>5</sup>	1.77×10 <sup>2</sup>	99.80
		2	1.14×10 <sup>5</sup>	8.33×10 <sup>4</sup>	1.09×10 <sup>5</sup>	1.65×10 <sup>2</sup>	99.79
		3	1.10×10 <sup>5</sup>	8.41×10 <sup>4</sup>	1.11×10 <sup>5</sup>	2.00×10 <sup>2</sup>	99.76
		Mean					99.78
<i>Klebsiella pneumoniae</i>	60	1	1.04×10 <sup>5</sup>	8.01×10 <sup>4</sup>	1.09×10 <sup>5</sup>	2.24×10 <sup>2</sup>	99.73
		2	1.12×10 <sup>5</sup>	8.45×10 <sup>4</sup>	1.02×10 <sup>5</sup>	2.36×10 <sup>2</sup>	99.69
		3	1.10×10 <sup>5</sup>	8.29×10 <sup>4</sup>	1.07×10 <sup>5</sup>	2.18×10 <sup>2</sup>	99.73
		Mean					99.72

**Inspection instructions:**
**1. Test method**

GB 21551.3-2010 Antibacterial and cleaning function for household and similar electrical appliances-Particular requirement of air cleaner (Annex A)

**2. Test microorganism**
*Staphylococcus albus* 8032 (*Staphylococcus lentus* CICC10897), *Escherichia coli* (8099), *Staphylococcus aureus* (ATCC6538), *Klebsiella pneumoniae* (ATCC4352)

**3. Test conditions**

- 1) Environment temperature: (20~25)°C
- 2) Environment humidity: (50~70)%RH

**4. Test equipment**

 Test chamber (30 m<sup>3</sup>), six-stage sieve sampler (FA-1), Microbial aerosol generator, NA

**5. Operation conditions of the machine**

Set the switch to position "Maximum Wind Speed".

**6. Computational formula**

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

 where:  $V_0$  = Colony count before test of control group;  $V_t$  = Colony count after test of control group

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

 where:  $V_1$  = Colony count before test of test group;  $V_2$  = Colony count after test of test group.

\*\*\*\*\* END OF REPORT \*\*\*\*\*

## Statement

1. This report is issued by The CAS Testing Technical Services (GuangZhou) Co.,Ltd. (hereinafter referred to as "Our Company").
2. This report is invalid if not affixed with authorized stamp of test and paging seal.
3. This report is invalid without signature of verifier and approver.
4. This report is invalid if being supplemented, deleted or altered.
5. Without written permission of our Company, this report can not be reproduced in part (except in whole).
6. The result(s) shown in this report refer only to the sample(s) tested.
7. Objections to this report must be submitted to our Company within 15 days. Otherwise, it will automatically deem to have accepted this report.
8. The Client shall be responsible for the accuracy, authenticity and completeness of the samples and information submitted for inspection, and the disputes arising therefrom shall be borne by the Client.
9. As any reports is issued as a result of this application for testing services, our Company will strictly keep confidentiality to the Clients. Except where disclosure is required on the basis of laws, regulations, judgments, and rulings (including in accordance with summons, court, or government proceedings).
10. The result(s) or conclusion(s) shown in this report about the description of the characteristics, composition, properties or quality are based on the specific time, methods and applicable criteria. Using different methods and criteria or under different environmental conditions for testing may come to different conclusions.
11. Since our Company's causes lead to modify the contents of this report, our Company shall reissue this report and bear the modification cost. The Client shall return the original report. Since the Client's causes lead to modify the contents of this report, the Client need to submit an application form for the change of report to our Company. The Client shall bear the modification cost and return the original report if our Company approves to reissue this report.