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检测
TESTING
CNAS L0823



202019001121

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

KJ20203966

Name of Sample

Plasma ion generator

Applicant

TianChang TRUMPPX Electronic
Technology Co., Ltd.



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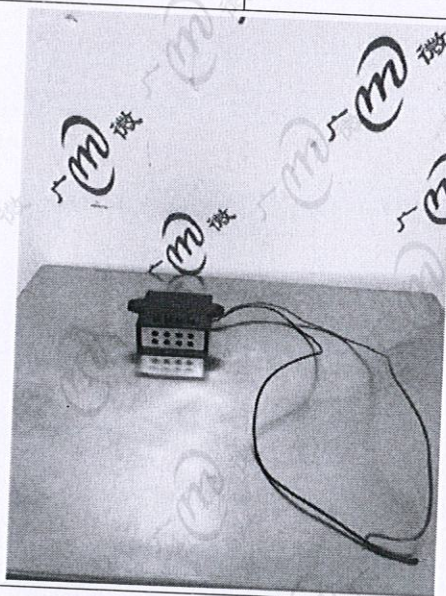
Test No. KJ20203966

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

TEST REPORT

Date Received: Oct. 28, 2020

Date Analyzed: Nov. 03, 2020

Name of Sample	Plasma ion generator	Source of Sample	Delivery
Applicant	TianChang TRUMPPXP Electronic Technology Co., Ltd.	Client	Pan Ruihong
Manufacturer	TianChang TRUMPPXP Electronic Technology Co., Ltd.	Brand	创普* TRUMPPXP
Type and Specification	TFB	Quantity of Sample	1Set (2 PCS)
Date of Production	2020.10.21	State of Sample	Machine
Batch Number	—	Packing of Sample	In box
Sample Picture			
Standard and Methods	- Referring to JDYB 003-2012 Test method of eliminating bacterial performance of refrigerators (agar method) and its effect evaluation - QB/T 2761-2006 Determination methods for purifying effect of indoor air purification products - GB/T 18204.2-2014 Examination methods for public places — Part 2: Chemical pollutants 7.2 MBTH spectrophotometry - GB/T 11737-1989 Standard method for hygienic examination of benzene, toluene and xylene in air of residential areas-Gas chromatography		
Items of Analysis	*Eliminating Bacterial Rate (<i>Staphylococcus albus</i> 8032, <i>Staphylococcus aureus</i> AS 1.89, <i>Escherichia coli</i> AS 1.90) - Removal rate (Formaldehyde, Benzene)		
Remarks	Working voltage: 12V.		

To be continued



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Test Method for the Eliminating Bacterial Rate of Refrigerator Eliminating Bacterial Device:

1. Test Equipment
 - 1) Strain: *Staphylococcus albus* 8032, *Staphylococcus aureus* AS 1.89, *Escherichia coli* AS 1.90
 - 2) Culture media: NA
 - 3) Refrigerator volume: 350L
2. Test Conditions
 - 1) Environment temperature: $(25 \pm 0.5) ^\circ\text{C}$
 - 2) Experimental temperature: $(5 \pm 0.5) ^\circ\text{C}$
3. Operation Conditions of the Machine
Just power on during the test.
4. Test Procedure
 - 1) The fresh bacterial suspension was prepared and its concentration was between $5.0 \times 10^3 \text{cfu/mL}$ and $1.0 \times 10^4 \text{cfu/mL}$. 0.1mL of the prepared bacterial suspension was added to the test agar and smeared evenly with a clean glass rod.
 - 2) After opening the test refrigerator and control refrigerator and running without load for 24h at $(5 \pm 0.5) ^\circ\text{C}$, put the sample to be tested into the center of the test refrigerator, and then place a plate in the center of the upper, middle and lower shelves of the test refrigerator and control refrigerator respectively.
 - 3) Open the sample to be tested in the test refrigerator, and recycle the plates from the test refrigerator and control refrigerator for culture after 24h.
5. Computational Formula

$$R = \frac{B-A}{B} \times 100\%$$

In the formula: R—Eliminating Bacterial Rate, %

B—Average Number of Colonies Recovered of Control Refrigerator, cfu / plate

A—Average Number of Colonies Recovered of Test Refrigerator, cfu / plate

Test Results

Number of Sample	Test Time (h)	Test Strain	Average Number of Colonies Recovered of Control Refrigerator B (cfu/plate)	Average Number of Colonies Recovered of Test Refrigerator A (cfu/plate)	Eliminating Bacterial Rate R (%)
KJ20203966-1	24	<i>Staphylococcus albus</i>	681	0	>99.99
		<i>Staphylococcus aureus</i>	705	5	99.29
		<i>Escherichia coli</i>	860	3	99.65

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Method for testing gaseous pollutant removal:

- Test conditions
 - Environment temperature: $(25 \pm 2) ^\circ\text{C}$
 - Environment humidity: $(50 \pm 10) \% \text{RH}$.
- Test equipment
Test chamber (1.5 m^3), constant current atmospheric sampler, UV-VIS spectrophotometer, Gas chromatograph.
- Test procedures
 - Sample preparation: Just power on during the test.
 - Preparation of release source: Put two glass rods winded around with five pieces gauze upright into two 500 mL reagent bottles, respectively pour 200 mL pollutant formaldehyde (0.2 %), benzene (0.06 %), tab on A₁, A₂.
 - No sample was placed in the blank test chamber A. Place the sample in test chamber B. The sample is kept energized during the experiment.
 - Put the release source A₁, A₂ separate into control chamber A and test chamber B, close the door immediately
 - Turn on the chamber fan of A and B to stir for one minute, then turn off the fan.
 - After 24 h, the samples of A and B were tested and analyzed, concentration were recorded as C_A and C_B.
- Computational formula
Removal rate:
$$y(\%) = \frac{C_A - C_B}{C_A} \times 100$$
 (C_A blank test chamber concentration, C_B test chamber concentration)

Test Results

Number of Sample	Pollutant	Test Time (h)	Control chamber	Test chamber	Removal rate y (%)
			Concentration C _A (mg/m ³)	Concentration C _B (mg/m ³)	
KJ20203966-1	Formaldehyde	24	1.01	0.53	47.5
	Benzene	24	2.42	1.37	43.4

End of report

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Date Reported





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