



中国认可  
国际互认  
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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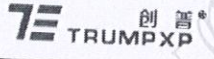
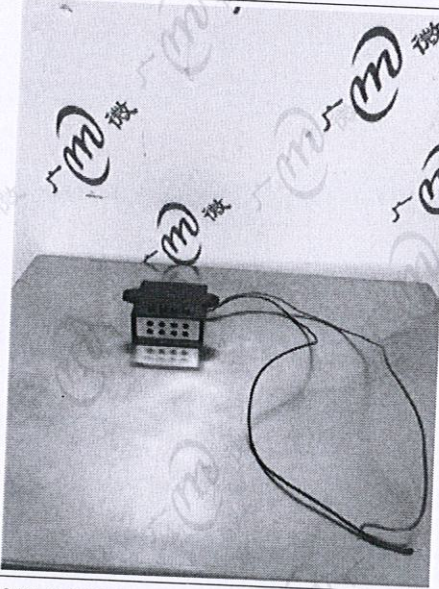


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GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.  
TEST REPORT

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*
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	<ol style="list-style-type: none"> <li>Referring to JDYB 003-2012 Test method of eliminating bacterial performance of refrigerators (agar method) and its effect evaluation</li> <li>QB/T 2761-2006 Determination methods for purifying effect of indoor air purification products</li> <li>GB/T 18204.2-2014 Examination methods for public places — Part 2: Chemical pollutants 7.2 MBTH spectrophotometry</li> <li>GB/T 11737-1989 Standard method for hygienic examination of benzene, toluene and xylene in air of residential areas-Gas chromatography</li> </ol>		
Items of Analysis	<ol style="list-style-type: none"> <li>*Eliminating Bacterial Rate (<i>Staphylococcus albus</i> 8032, <i>Staphylococcus aureus</i> AS 1.89, <i>Escherichia coli</i> AS 1.90)</li> <li>Removal rate (Formaldehyde, Benzene)</li> </ol>		
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 ± 0.5) °C
  - 2) Experimental temperature: (5 ± 0.5) °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 5.0×10<sup>3</sup>cfu/mL and 1.0×10<sup>4</sup>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 ± 0.5) °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

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



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Method for testing gaseous pollutant removal:

1. Test conditions
  - 1) Environment temperature:  $(25 \pm 2)$  °C
  - 2) Environment humidity:  $(50 \pm 10)$  %RH.
2. Test equipment  
Test chamber (1.5 m<sup>3</sup>), constant current atmospheric sampler, UV-VIS spectrophotometer, Gas chromatograph.
3. Test procedures
  - 1) Sample preparation: Just power on during the test.
  - 2) 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 A<sub>1</sub>, A<sub>2</sub>.
  - 3) 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.
  - 4) Put the release source A<sub>1</sub>, A<sub>2</sub> separate into control chamber A and test chamber B, close the door immediately
  - 5) Turn on the chamber fan of A and B to stir for one minute, then turn off the fan.
  - 6) After 24 h, the samples of A and B were tested and analyzed, concentration were recorded as C<sub>A</sub> and C<sub>B</sub>.
4. Computational formula

Removal rate:

$$y(\%) = \frac{C_A - C_B}{C_A} \times 100 \quad (C_A \text{ blank test chamber concentration, } C_B \text{ test chamber concentration})$$

Test Results

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

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

Editor

Checker

Issuer

Date Reported



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