

# **TEST REPORT**

Number: HKGH02504466

Oct 16, 2019 Date:

Submitted sample said to be

: Germ Shield Item Name Buyer **TAO Clean** Manufacturer

Model # BA-0401 Country of Origin China PO# 30741



### Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details:

(1) Toothbrush UV sterilizer performance verification

- Staphylococcus aureus (ATCC 6538) Enterococcus hirae (ATCC 10541)
- Pseudomonas aeruginosa (ATCC 9027)

For and on behalf of: Intertek Testing Services HK Ltd.

Cindy I.K. Chan Vice President

Result

Pass



## **TEST REPORT**

Number: HKGH02504466

Toothbrush UV sterilizer performance verification (1)

> Staphylococcus aureus (ATCC 6538) Culture used:

> > Enterococcus hirae (ATCC 10541)

Pseudomonas aeruginosa (ATCC 9027)

UV explosure time: 4 minutes

Medium used: **Nutrient Agar** 

Rinsing solution / diluent Phosphate Buffered Saline

1. Adjust known amount of bacteria suspension at around ~10<sup>8</sup> CFU/mL. Procedure:

2. Add the 0.01mL culture suspension (~10<sup>6</sup> CFU/mL) evenly distributed onto the cover lips sticked on the samples (one as control and the other one as tested sample) and repeat the tests for 3 times each.

3. Place the control product into 5mL buffer saline for rinsing. Then perform pour plating with serial dilution as a initial count.

4. Another one tested product place into UV light sanitizer box and turn on the UV light for 4 mins for sanitizer.

5. After the process, put it out and place into 5mL buffer solution for rinsing. Then perform pour plating as final count.

6. Incubate all plates at 37°C for 48 hours.

7. Perform the above steps with another bacteria.

8. Count and plates and calculate the percentage reduction:

% Reduction = [1 - 10 - (Log Initial Count - Log Final Count)] x 100%







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Number: HKGH02504466

#### Result:

## Tested organism: Staphylococcus aureus

	Product initial count	Product after UV sanitation count	% Reduction	Log Reduction	Limit	Conclusion
Trail 1	2.0 x10 <sup>6</sup>	25	> 99.9%	4.9	≥ 3 log	Pass
Trail 2	1.9 x10 <sup>6</sup>	155	> 99.9%	4.1	<u>&gt;</u> 3 log	Pass
Trail 3	1.9 x10 <sup>6</sup>	115	> 99.9%	4.2	≥ 3 log	Pass

## Tested organism: Enterococcus hirae

	Product initial count	Product after UV sanitation count	% Reduction	Log Reduction	Limit	Conclusion
Trail 1	1.8 x10 <sup>6</sup>	<5	> 99.9%	5.6	≥ 3 log	Pass
Trail 2	1.7 x10 <sup>6</sup>	<5	> 99.9%	5.5	<u>&gt;</u> 3 log	Pass
Trail 3	2.5 x10 <sup>6</sup>	<5	> 99.9%	5.7	≥ 3 log	Pass

### Tested organism: Pseudomonas aeruginosa

	Product initial count	Product after UV sanitation count	% Reduction	Log Reduction	Limit	Conclusion
Trail 1	1.7 x10 <sup>6</sup>	<5	> 99.9%	5.5	≥ 3 log	Pass
Trail 2	1.8 x10 <sup>6</sup>	<5	> 99.9%	5.6	<u>&gt;</u> 3 log	Pass
Trail 3	1.9 x10 <sup>6</sup>	<5	> 99.9%	5.6	≥ 3 log	Pass

Sample received condition: sample in closed plastic bag.

Date sample received: Sep 04 & Sep 16, 2019 Testing period: Sep 16, 2019 to Sep 27, 2019

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End of report

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