

TEST REPORT

Number: HKGH02463287

Date: Jun 14, 2019

Submitted sample said to be :
Item Name : **BA-0401 - Universal Toothbrush Sterilizer**
Item No. : 1657068
Quantity : 1 set
Manufacturer :
Buyer : Taoclean
Country of Origin : China

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 :

<u>Requirement</u>	<u>Result</u>
(1) Toothbrush UV sterilizer performance verification - <i>Escherichia coli</i> (ATCC 8739)	Pass

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



Cindy I.K. Chan
Director



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(1) Toothbrush UV sterilizer performance verification

- Culture used: *Escherichia coli* (ATCC 8739)
- UV exposure time: 4 minutes
- Medium used: Nutrient Agar
- Rinsing solution / diluent Phosphate Buffered Saline
- Procedure:
1. Adjust known amount of bacteria suspension at around $\sim 10^8$ CFU/mL.
 2. Add the 0.01mL culture suspension ($\sim 10^6$ 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 37⁰C for 48 hours.
 7. Perform the above steps with another bacteria
 8. Count and plates and calculate the percentage reduction:

$$\% \text{ Reduction} = [1 - 10^{-(\text{Log Initial Count} - \text{Log Final Count})}] \times 100\%$$

Result:

Tested organism: *Escherichia coli*

	Product initial count	Product after UV sanitation count	% Reduction	Log Reduction	Limit	Conclusion
Trail 1	3.3 x10 ⁶	<5	> 99.9%	5.8	≥ 3 log	Pass
Trail 2	3.2 x10 ⁶	<5	> 99.9%	5.8	≥ 3 log	Pass
Trail 3	2.7 x10 ⁶	<5	> 99.9%	5.7	≥ 3 log	Pass

Sample received condition: sample in closed plastic bag.

Date sample received : Jun 03, 2019

Testing period : Jun 03, 2019 to Jun 10, 2019



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End of report

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