香 港 認 証 中 心 有 限 公 司
The Hong Kong Certification Centre Limited

ATTESTATION REPORT

Date: 2025-01-24
No.: H003183

Applicant	:	MassPhoton Limited Unit 542, 5F, Building 5W, Phase One, Hong Kong Science Park, New Territories, Hong Kong.
Description of Sample(s)	:	Product name: UV water sterilizer Model no.: 3L/min Brand name: MASSPHOTON
Sample(s) Received Date	:	2025-01-17
Test Completed Date	:	2025-01-23
Investigation Requested	:	Water disinfection laboratory microbiological sterilization test
Conclusions	:	Refer to test summary
Remark(s)	:	Report content referring to Test Report No: STI-20250117-008N dated 2025-01-24, tested by Standard Sci-Tech Innovation (Qingdao) Pharmaceutical Technology Co., Ltd.

THE HONG KONG CERTIFICATION CENTRE LIMITED 香港認証中心有限公司

Joe

Joe Zhang
For and on behalf of
The Hong Kong Certification Centre Ltd

In the event of any discrepancy between the English and Chinese versions of the text mentioned in this report, the Chinese version shall prevail to the extent of such discrepancy only.

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Test Summary

Sample Name	Ultraviolet water sterilizer	**Sample Quantity**	One
Inspection Department	MassPhoton Limited	**Production Date:**	January 15,2025
Production	XuZhou LiYu Advanced Technology Co.,Ltd	**Sample Receiving Date**	2025.01.17
Unit Model	/	**Test Completion Date**	2025.01.23
Sample Traits	module		

Inspection standard

GB 28235-2020 Appendix E of the Hygienic Requirements for Ultraviolet Sterilizers

Test conclusion

The results of the disinfection effect test showed that the artificially stained bacterial water sample can be reduced to 0 CFU / 100 mL after passing through the ultraviolet water sterilizer (24V, 200 mA).

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Sample Name	Ultraviolet water sterilizer	**Sample Receiving Date**	2025.01.17
Test Item	Water disinfection laboratory microbiological sterilization test	**Completion Date**	2025.01.23

1. Equipment

1. Test sample: UV water sterilizer.
2. Test strain: Escherichia coli (8099), and the 4th generation fresh oblique culture was taken for test. The strain was provided by Guangdong Food Microbiology Safety Engineering Technology Research and Development Center.
3. Equipment: KC-SP-YQ-178 thermothermal incubator (DHP-9272), KC-SP-YQ-720 biosafety cabinet (BSC-1604 IIA 2).

2. Method

1. Inspection basis: GB 28235-2020 Appendix E of the Hygienic Requirements for Ultraviolet Sterilizers
2. Laboratory ambient temperature: 22~23°C, laboratory ambient humidity: 51~52%.
3. Test of sterilization performance:
   (1) The bacterial innoculated water sample of E. coli (8099) was prepared at a concentration of 5×10^4~$\times10^5$CFU/100mL.
   (2) The contaminated water samples of the test bacteria were taken for the count of E. coli live bacteria in the positive control group.
   (3) Turn on the ultraviolet water sterilizer and set the power supply condition 24V, 200 mA. After the stable operation of the ultraviolet generator, pass the innoculated bacteria water sample through the sterilizer at a flow rate of 3 L/min, and add the sterilized water sample to the sterile sampling bottle and mix well. Take 100 mL of water samples, 10 mL and 1 mL of water samples respectively, and the viable bacteria culture of E. coli was counted according to the method specified in the standard.
   (4) The same batch of unused culture media used in the test and the diluted filter membrane were placed on the culture medium to observe the presence of bacterial growth (negative control group).
   (5) The test was repeated three times.

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3. Result

Disinfection effect test

The test was repeated three times. The disinfection effect data of E. coli in the ultraviolet water disinfectant (24V, 200 mA) in the infected bacteria water samples are shown in Table 1.

Table 1：Disinfection effect of the samples on E. coli in the stained bacteria water samples

Flow rate (L/min)	Average Viable Colony Count (CFU / 100 mL)		
	1	2	3
3	0	0	0
Sterilizing rate (%)	>99.999	>99.999	>99.999
Positive control	4.20×10^5	4.90×10^5	4.80×10^5

Note: No bacteria growth found in the negative control group.

4. Conclusion

The results of the disinfection effect test showed that the artificially stained bacterial water sample can be reduced to 0 CFU/ mL after passing through the ultraviolet water sterilizer (24V, 200 mA).

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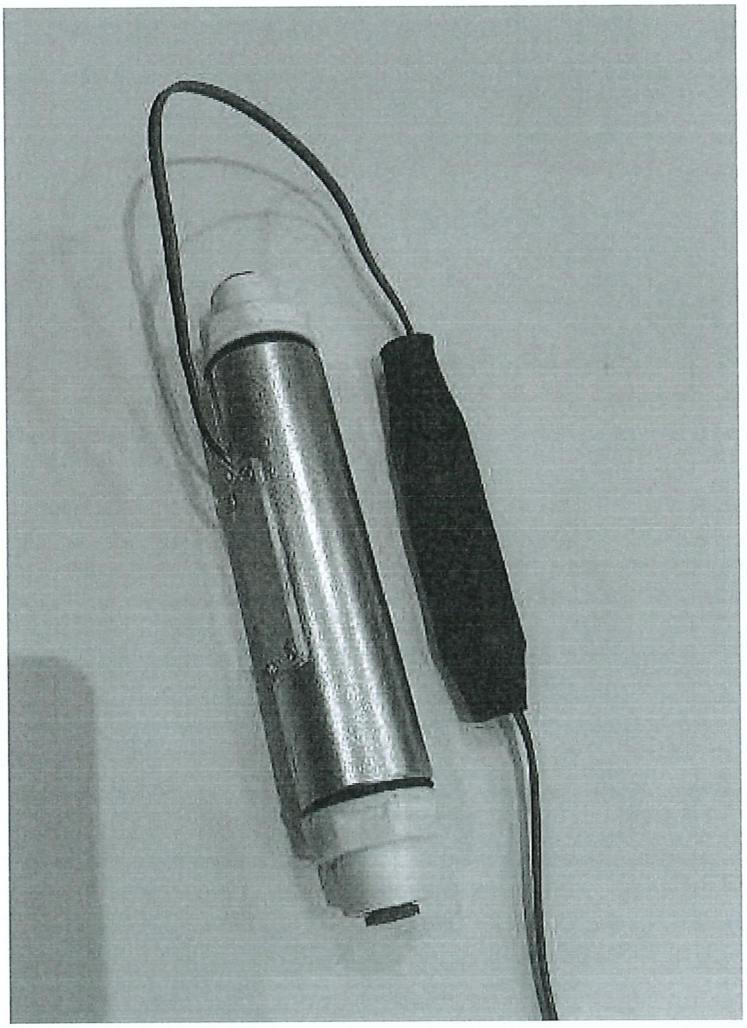
Product Photo



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