

Test Report

Report No:ZHOJ20024142001S02

Applicant: BASHI Technologies(Shanghai) Ltd.
Building C, No. 888, Huanhuxier RD. Lingang new
area, Free Trade Zone, Shanghai, China.

Date: Jul 21, 2020

Sample Description:

One (1) submitted sample said to be :

Sample Name : UV-SHARK
Sample Code : ZHOJ20024142.001
Test Purpose : Entrust Test



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued

Authorized By:



Ryan Luo
Intertek GM Testing Service Zhuhai Co.Ltd.
ZHCCLTechnical manager

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The Germicidal efficacy test of Ultraviolet sterilizer for sterilizing object surface.

Test Method: Refer to Technical Standard for Disinfection (version 2002) Chapter II Sect 2.1.5.5.4 Determination of Germicidal efficacy

As per feature of Ultraviolet sterilizer and client's requirement, germicidal efficacy test and experimental conditions are as follows:

1. Prepare bacterial and fungal carriers according to Technical Standard for Disinfection (version 2002) Chapter II Sect 2.1.1.2, choose glass slides as carrier.
2. Place the UV sterilizer horizontally on one side, and the lamp is located on the left and right sides of the sample.
3. Divide the test area into left and right according to the opening direction. The left side is equivalent to the upper part of the sterilizer in normal use; And right side is equivalent to the lower part.
4. Place 2 pieces of sample slides on the left and right side of UV sterilizer respectively. Each is 5 cm apart from the inner wall of the sterilizer.
5. Each microorganism is tested individually to avoid cross-contamination.
6. Close the lid and turn on the UV lamp to keep sterilizer working for 8 min.
7. Remove the testing slides and conduct pour plate counting according to Technical Standard for Disinfection (version 2002) Chapter II Sect 2.1.1.3.
8. Positive Control Group: Use the same lot of bacterial and fungal tablets as positive control under room temperature. When the experiment of sterilization is finished, immediately take 2 untreated slides into a 5.0mL PBS test tubes, and shake 80 times. Take the suspension to conduct pour plate counting according to Technical Standard for disinfection (version 2002) Chapter II Sect 2.1.1.3.
9. Negative Control Group: Incubate the same lot of culture medium or PBS medium, observe whether microorganism grow or not.
10. Perform three trials. The microorganism count of Positive Control Group should be 5×10^5 cfu/pcs to 5×10^6 cfu/pcs and Negative Control Group should be no microorganism growth.

Test microorganism : Escherichia coli (ATCC 8739)
Salmonella Typhimurium (ATCC 14028)



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Ultraviolet ray sterilizing time: 8min

| Test microorganism | Trails | Log ₁₀ Reduction | | Percentage Reduction | |
|---------------------------------|---------|-----------------------------|--------|----------------------|---------|
| | | Upper* | Lower* | Upper* | Lower* |
| Escherichia coli (ATCC 8739) | Trail 1 | >4.0 | >4.0 | >99.99% | >99.99% |
| | Trail 2 | >4.0 | >4.0 | >99.99% | >99.99% |
| | Trail 3 | >4.0 | >4.0 | >99.99% | >99.99% |

| Test microorganism | Trails | Log ₁₀ Reduction | | Percentage Reduction | |
|---|---------|-----------------------------|--------|----------------------|---------|
| | | Upper* | Lower* | Upper* | Lower* |
| Salmonella Typhimurium (ATCC 14028) | Trail 1 | >4.0 | >4.0 | >99.99% | >99.99% |
| | Trail 2 | >4.0 | >4.0 | >99.99% | >99.99% |
| | Trail 3 | >4.0 | >4.0 | >99.99% | >99.99% |

*Indicates the test position of the sample when it is placed vertically in normal use.

Criteria: According to to Technical Standard for Disinfection (version 2002) Chapter II Sect 2.1.5.5.4, in order to satisfy the Germicidal efficacy test of Ultraviolet sterilizer, the product shall demonstrate at least a 3 decimal logarithm (lg) reduction of the specified test organisms according to its practical applications when the product is tested at its intended use dilution.

Re: Report Revision Notification

Intertek GM Testing Service Zhuhai Co. Ltd. Report NumberZHOJ20024142001S01 Jul 20, 2020.

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services Report Number ZHOJ20024142001S02

Please return the original captioned report to us immediately.

Thank you for your attention.

Date sample received : Jun 29, 2020

Testing period : Jun 29, 2020 to Jul 10, 2020

End of report

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