



5/19/20

Subject: **3<sup>rd</sup> Party Testing on RemPhos LumiCleanse™ UVC1 Germicidal Fixture**

The UVC quartz germicidal lamps that we use inside of our fixture are an off the shelf 254nm wavelength lamp that is sourced from a quality manufacturer.

The 254nm UVC lamp has been tested to effectively kill surface and airborne pathogens including bacteria, mold, fungi, viruses and allergens.

Our lamp manufacturer has performed 3<sup>rd</sup> party lab testing at microbiology labs to validate efficacy.

Going forward we will continue to perform additional 3<sup>rd</sup> party testing using more organisms in other labs in order to validate efficacy.

In addition to the microbiology testing, our product will be ETL listed to UL safety requirements specifically for a UV emitting fixture. We are passionate about ensuring that we only bring to market, quality, tested solutions.

Please see the following test reports below which we will be adding to as new reports are available.

Thank you,



David Gershaw  
Chief Innovation Officer



## **Test report by Guangdong Detection Center of Microbiology Tested against 5 Bacteria**



广微测  
Gmicro Testing



201819000883



中国认可  
国际互认  
检测  
TESTING  
CNAS L1747

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS

Report No.:2020FM02860R01E Verification Code: 35479862



Name of Sample	UV Germicidal Lamp	Test Type	Entrustment Test
Applicant	Zhejiang shunshu lighting Co.,Ltd.	Address	4th Floor, Building 7, Yanhua Industrial Park, Renmin West Road, Shangyu District, Shaoxing City, Zhejiang Province
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	One Sample Submitted
Spec and Lot No of Sample	YQUV-AIR/38	State and Characteristic	Machine
Sample Received Date	2020-02-27	Test Completion Date	2020-03-10
Test Standard and Method	Technical Standard for Disinfection (2002 Ministry of Health P.R.China)- 2.1.5.4		
Item Tested	Validation of disinfection efficacy of sterilization and disinfection instruments		
Test Conclusion	The test data of the sample(s) is attached to the page(s) of this report.		
Remarks	Manufacturer: Zhejiang shunshu lighting Co.,Ltd. (provided by the applicant)		

Issue Date: 2020-03-26

(Official Seal)



Editor:

Chen Jingjing

Verifier:

Sun Jie

Approver:

Xie Xiaobao



广微测  
Gmicro Testing



201819000883



中国认可  
国际互认  
检测  
TESTING  
CNAS L1747

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

ANALYSIS AND TEST RESULT

Report No.: 2020FM02860R01E

1. Sample pretreatment: Use glass as the bacterial carrier, after natural drying place under the lamp at 10cm and acted for 60min.

1.1. Test Result:

Test Organisms	Test groups	Average cfu of positive controls (cfu/piece)	Average cfu of testing groups (cfu/piece)	Killing rate (%)	Sterilization logarithm
<i>Escherichia coli</i> 8099	1	$1.6 \times 10^6$	<10	>99.999	>5.20
	2	$1.5 \times 10^6$	<10	>99.999	>5.17
	3	$1.5 \times 10^6$	<10	>99.999	>5.17
<i>Staphylococcus aureus</i> ATCC 6538	1	$1.0 \times 10^6$	<10	>99.999	>5.00
	2	$1.1 \times 10^6$	<10	>99.999	>5.04
	3	$1.1 \times 10^6$	<10	>99.999	>5.04
<i>Candida albicans</i> ATCC 10231	1	$8.7 \times 10^5$	<10	>99.99	>4.94
	2	$8.4 \times 10^5$	<10	>99.99	>4.92
	3	$8.9 \times 10^5$	<10	>99.99	>4.95
<i>Aspergillus niger</i> ATCC 16404	1	$1.6 \times 10^5$	$1.3 \times 10^2$	99.92	3.09
	2	$1.6 \times 10^5$	$1.4 \times 10^2$	99.91	3.05
	3	$1.6 \times 10^5$	$1.6 \times 10^2$	99.90	3.00
<i>Legionella pneumophila</i> ATCC 33152	1	$1.1 \times 10^6$	<10	>99.999	>5.04
	2	$1.3 \times 10^6$	<10	>99.999	>5.11
	3	$1.2 \times 10^6$	<10	>99.999	>5.08

(blank below)

分  
专



## **Test report by Guangdong Detection Center of Microbiology Tested against Mites**



GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS



Report No.: 2020FM02860R02E Verification Code: 05716238

Name of Sample	UV Germicidal Lamp	Test Type	Entrustment Test
Applicant	Zhejiang shunshu lighting Co.,Ltd.	Address	4th Floor, Building 7, Yanhua Industrial Park, Renmin West Road, Shangyu District, Shaoxing City, Zhejiang Province
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	One Sample Submitted
Spec and Lot No of Sample	YQUV-AIR/38	State and Characteristic	Machine
Sample Received Date	2020-02-27	Test Completion Date	2020-03-09
Test Standard and Method	MS (i) C061-C01		
Item Tested	Killing rate of mites		
Test Conclusion	The test data of the sample(s) is attached to the page(s) of this report.		
Remarks	Manufacturer: Zhejiang shunshu lighting Co.,Ltd. (provided by the applicant)		

Issue Date: 2020-03-26  
(Official Seal)



Editor:

Chen Yingting

Verifier:

*[Signature]*

Approver:

Xie Xiaobao



广微测

Gmicro Testing

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

ANALYSIS AND TEST RESULT

Report No.: 2020FM02860R02E

Test Result:				
Name of Sample	Acted time and distance	The number of live mites in the control group (counts)	The number of live mites in the test group (counts)	Killing rate of mites (%)
UV Germicidal Lamp	10cm, 60min	900	0	100
(Blank below)				
Remarks	Test mite species: (Dermatophagoides farinae), male and female mites.			

分  
转